



# Standard Power Supplies

From The World's No.1 Power Supply Company

October 2018



[www.DeltaPSU.com](http://www.DeltaPSU.com)



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# Company Profile

## Delta Electronics Group

### World's No.1\* Power Supply Company

Delta Electronics Group is the world's largest provider of switching power supplies and a major source for power management and renewable energy solutions. Established in 1971, Delta has sales offices and R&D facilities worldwide with manufacturing plants located in Taiwan, Thailand, China, Mexico, India and Europe.

As a global leader in power electronics, Delta has long been adopting Green manufacturing processes, recycling initiatives, waste management programs and environmentally-friendly green buildings. In 2017, Delta Electronics was selected for the prestigious Dow Jones Sustainability Index (DJSI) World for the seventh consecutive year. Amongst many other national and international awards, since 2010, Delta has also received more than 49 internationally recognized technology and design awards.

#### 1 Standard Industrial and Medical Power Supplies



Delta offers an extensive range of standard power supplies for industrial and medical applications. The industrial power supplies comprise of DIN rail, panel mount and open frame types and LED drivers. The medical power supplies include open frame, enclosed, ATX and AC adapter types. All Delta standard power supplies offer customers the same industrial leading technology and quality that Delta's ODM partners are familiar with. Due to Delta's highly reliable products and world class customer support, we have been expanding our product portfolio aggressively to meet the global demands which have been growing annually. Please visit our standard product homepage at [www.DeltaPSU.com](http://www.DeltaPSU.com) for more product information.

#### 2 Modified Standard Power Supplies



Many top tier electronics companies on the Fortune® 500 list have long regarded Delta as a trusted ODM partner. These companies expect nothing less than the best technology and quality. With decades of industrial leading manufacturing and design experiences in ODM power management products, the IPS team can also offer our customers modified standard products by leveraging from the wide range of standard products in our catalog. Modified standard products enable our customers to optimize their costs and product development time. For further query, please contact your local Delta distributor or simply send your query to [info@deltapsu.com](mailto:info@deltapsu.com).

\* Based on global sales revenue as reported in Micro-Tech Consultants March 2018 Report.

# Typical Applications

## Delta Standard Power Supplies



LED Signage

### LED Signage/ Display

#### Applicable Series

PMC, PMT, PMF, PMR



Oil & Gas

### Oil & Gas

- Petrol station
- Oil refinery

#### Applicable Series

CliQ, CliQ II, CliQ M



LED Lighting

### LED Lighting

#### Applicable Series

LNE, LNV, PJJ



Industry

### Factory

- Automation process
- Automation engineering

#### Applicable Series

CliQ, CliQ II, CliQ III, CliQ M, CliQ VA, Lyte, Chrome, MEB, MEP, MEU, PMC, PMT, PMT2, PMF, PMU, Sync



Marine

### Maritime

- Offshore

#### Applicable Series

CliQ M







IT

## Smart Building

- Elevator
- Escalator
- Data center
- HVAC

### Applicable Series

CliQ, CliQ II, CliQ III, CliQ M, CliQ VA, Chrome, Lyte, Sync



IT

## Department Store

- Automatic door
- Vending machine
- ATM

### Applicable Series

PMC, PMT, PMH, PMF, PMU, PJ, PJB, PJH, PJJ, PJT, PJJ



Medical

## Hospital

### Applicable Series

MDS, MEA, MEB, MEF, MEP, MEU



Renewable  
Energy

## Green Energy

- Wind turbine
- Solar farm

### Applicable Series

CliQ, CliQ II, CliQ III, CliQ M, CliQ VA, Lyte



Household

## Home

- Electrical appliances
- Home automation controller

### Applicable Series

CliQ II, CliQ M, Chrome, PJH, PMC, PMH, PMT2, Sync

# Latest Products

## Delta Standard Power Supplies

### Delta Industrial Power Supplies

#### CliQ III

High Power Density and Competitively Priced



# CliQ<sup>III</sup>

24V  
120W-480W

PAGE 25

#### CliQ VA

Slim Design with Smart Monitoring Function



# CliQ<sup>VA</sup>

24V  
120W-480W

PAGE 27

#### PMT2

Panel Mount with Low Profile Design (30mm)



# PMT2

12V, 24V  
50W-150W

PAGE 40

#### PMC

Panel Mount with Power Boost



# PMC

12V, 48V  
600W

PAGES 43, 46

#### PJH

Open Frame for Household Application



# PJH

24V, 36V  
300W

PAGE 64

#### PJU

Open Frame with Integrated DC-UPS



# PJU

13V  
60W

PAGE 65

## Delta Medical Power Supplies

### MEB

Intelligent Fan Speed Control



# MEB

48V  
1,200W

PAGE 79

### MEU

PMBus Ver 1.3 Supported



# MEU

24V, 48V  
600W

PAGE 90

### MEP

Open Frame with High MTBF



# MEP

15V  
25W

PAGE 89

### MEG

Compact Size & High Power Density



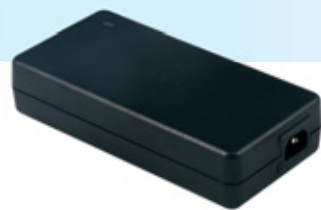
# MEG

Configurable Output  
2,100W

PAGE 95

### MEA

Desktop Adapter with Efficiency Level VI



# MEA

15V 120W  
24V 250W

PAGE 103

### MEF

Wall Mount Adapter with IP22 Rating



# MEF

5V  
10W

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# Latest Products

## Delta Standard Power Supplies

### Delta LED Power Supplies

#### PJL

Open Frame for LED Lighting Power Solution



AR

# PJL

48V  
200W-400W

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# Standard Products

## Delta Industrial Power Supplies



### Product Types

#### 1 DIN Rail

Delta's feature-rich DIN rail power supplies come with various features such as start up at  $-40^{\circ}\text{C}$ , Advanced Power Boost (CliQ M & CliQ VA) and smart monitoring function (CliQ VA) for demanding applications.



#### 3 Open Frame

The Open Frame series offers varieties of nominal output voltage with versatile configuration options, such as enclosed, L frame and open frame (bareboard).



#### 2 Panel Mount

Delta offers many series of panel mount power supplies for different application. For example, the innovative PMC series with corrosion resistant aluminium body. The affordable PMT series with specifications bigger than its price tag. And the PMH series designed for household electrical appliances safety approvals.



#### 4 Modules

The DIN rail modules are useful accessories to enhance your power management solution. The modules include UPS, buffer and redundancy modules are designed to work seamlessly with Delta DIN rail power supplies.



# Selection Guide

## Delta Industrial Power Supplies

New products are frequently introduced. Please visit [www.DeltaPSU.com](http://www.DeltaPSU.com) for latest product updates.

| Product Type          | Series   | Model Name      | Phase |   |   | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range*                                         | Page |
|-----------------------|----------|-----------------|-------|---|---|-----|----------------|----------------|--------------|--------------------------------------------------------------|------|
|                       |          |                 | 1     | 2 | 3 |     |                |                |              |                                                              |      |
| DIN Rail Power Supply | CliQ     | DRP012V015W1A□  | ●     |   |   |     | 12V            | 1.25A          | 15W          | 85-264Vac (DC input range 120-375Vdc)                        | 18   |
|                       |          | DRP012V030W1A□  | ●     |   |   |     |                | 2.5A           | 30W          |                                                              |      |
|                       |          | DRP012V060W1AA  | ●     |   |   |     |                | 5.0A           | 60W          |                                                              |      |
|                       |          | DRP012V100W1AA  | ●     |   |   |     |                | 8.33A          | 100W         |                                                              |      |
|                       |          | DRP-24V48W1AZ   | ●     |   |   |     | 24V            | 2.0A           | 48W          | 85-264Vac (DC input range 120-375Vdc)                        | 19   |
|                       |          | DRP024V060W1AZ  | ●     |   |   |     |                | 2.5A           | 60W          |                                                              |      |
|                       |          | DRP024V060W1AA  | ●     |   |   |     |                | 2.5A           | 60W          |                                                              |      |
|                       |          | DRP024V120W1AA  | ●     |   |   | ●   |                | 5.0A           | 120W         |                                                              |      |
|                       |          | DRP024V240W1AA  | ●     |   |   | ●   |                | 10.0A          | 240W         |                                                              |      |
|                       |          | DRP024V480W1AA  | ●     |   |   | ●   |                | 20.0A          | 480W         |                                                              |      |
|                       | CliQ II  | DRP024V060W1B□  | ●     |   |   |     | 24V            | 2.5A           | 60W          | 85-264Vac (DC input range 120-375Vdc)                        | 20   |
|                       |          | DRP024V120W1B□  | ●     |   |   |     |                | 5.0A           | 120W         |                                                              |      |
|                       |          | DRP024V240W1B□  | ●     |   |   | ●   |                | 10.0A          | 240W         |                                                              |      |
|                       |          | DRP024V480W1B□  | ●     |   |   | ●   |                | 20.0A          | 480W         |                                                              |      |
|                       |          | DRP024V060W1N□  | ●     |   |   |     |                | 2.5A           | 60W          | 85-264Vac (DC input range 120-375Vdc)                        | 21   |
|                       |          | DRP-24V100W1NN  | ●     |   |   | ●   | 24V            | 3.8A           | 91.2W        |                                                              |      |
|                       |          | DRP-24V120W2BN  | ●     | ● |   |     |                | 5.0A           | 120W         |                                                              |      |
|                       |          | DRP-24V240W2BN  | ●     | ● |   | ●   |                | 10.0A          | 240W         |                                                              |      |
|                       |          | DRP024V060W3B□  |       | ● | ● |     |                | 2.5A           | 60W          | 3 x 320-600Vac or 2 x 360-600Vac (DC input range 450-800Vdc) | 23   |
|                       |          | DRP024V120W3B□  |       | ● | ● |     |                | 5.0A           | 120W         |                                                              |      |
|                       |          | DRP024V240W3B□  |       | ● | ● |     |                | 10.0A          | 240W         |                                                              |      |
|                       |          | DRP024V480W3B□  |       | ● | ● | ●   |                | 20.0A          | 480W         |                                                              |      |
|                       |          | DRP024V960W3BN  |       | ● | ● | ●   |                | 40.0A          | 960W         |                                                              |      |
|                       |          | DRP048V060W1B□  | ●     |   |   |     | 48V            | 1.25A          | 60W          | 85-264Vac (DC input range 120-375Vdc)                        | 24   |
|                       |          | DRP048V120W1B□  | ●     |   |   | ●   |                | 2.5A           | 120W         |                                                              |      |
|                       |          | DRP048V240W1B□  | ●     |   |   | ●   |                | 5.0A           | 240W         |                                                              |      |
|                       |          | DRP048V480W1B□  | ●     |   |   | ●   |                | 10.0A          | 480W         |                                                              |      |
|                       | CliQ III | DRP-24V120W1CAN | ●     |   |   | ●   | 24V            | 5.0A           | 120W         | 88-264Vac                                                    | 25   |
|                       |          | DRP-24V120W1CBN | ●     |   |   | ●   |                | 5.0A           | 120W         | 88-264Vac (DC input range 88-375Vdc)                         |      |
|                       |          | DRP-24V240W1CAN | ●     |   |   | ●   |                | 10.0A          | 240W         | 88-264Vac                                                    |      |
|                       |          | DRP-24V240W1CBN | ●     |   |   | ●   |                | 10.0A          | 240W         | 88-264Vac (DC input range 88-375Vdc)                         |      |
|                       |          | DRP-24V480W1CAN | ●     |   |   | ●   |                | 20.0A          | 480W         | 88-264Vac                                                    |      |
|                       |          | DRP-24V480W1CBN | ●     |   |   | ●   |                | 20.0A          | 480W         | 88-264Vac (DC input range 88-375Vdc)                         |      |

\* DC input is certified for selected models

### DIN Rail Power Supply Model Numbering

| DR       | P                                | XXXV           | XXXW         | 1                                                                   | A                                     | □                                                                                                                                                                                                                                              |                                                           |
|----------|----------------------------------|----------------|--------------|---------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| DIN Rail | Product Type<br>P - Power Supply | Output Voltage | Output Power | Phase Input<br>1 - Single Phase                                     | A - CliQ Series                       | A - Metal Case, with Class I, Div 2 and ATEX approvals<br>Y - Plastic Case, with Class I, Div 2 and ATEX approvals<br>Z - Plastic Case, without Class I, Div 2 and ATEX approvals                                                              |                                                           |
| DR       | P                                | XXXV           | XXXW         | □                                                                   | □                                     | □                                                                                                                                                                                                                                              |                                                           |
| DIN Rail | Product Type<br>P - Power Supply | Output Voltage | Output Power | Phase Input<br>1 - Single Phase<br>2 - Two Phase<br>3 - Three Phase | B - CliQ II Series<br>N - NEC Class 2 | A - Metal Case, with Class I, Div 2 and ATEX approvals<br>N - Metal Case, without Class I, Div 2 and ATEX approvals<br>Y - Plastic Case, with Class I, Div 2 and ATEX approvals<br>Z - Plastic Case, without Class I, Div 2 and ATEX approvals |                                                           |
| DR       | P –                              | XXV            | XXXW         | 1                                                                   | C                                     | □                                                                                                                                                                                                                                              | N                                                         |
| DIN Rail | Product Type<br>P - Power Supply | Output Voltage | Output Power | Phase Input<br>1 - Single Phase                                     | C - CliQ III Series                   | Input Voltage<br>A - AC Input<br>B - AC & DC Input                                                                                                                                                                                             | N - Metal Case, without Class I, Div 2 and ATEX approvals |

| Product Type          | Series                                                                                                                                             | Model Name     | Phase | PFC   | Output Voltage | Output Current | Output Power | Input Voltage Range*                  | Page                                  |    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|-------|----------------|----------------|--------------|---------------------------------------|---------------------------------------|----|
|                       |                                                                                                                                                    |                | 1     |       |                |                |              |                                       |                                       |    |
| DIN Rail Power Supply | CliQ M <ul style="list-style-type: none"><li>Slim design with high power density</li><li>Advanced Power Boost</li><li>Maritime approvals</li></ul> | DRM-24V80W1PN  | ●     | ●     | 24V            | 3.4A           | 80W          | 85-276Vac (DC input range 88-375Vdc)  | 26                                    |    |
|                       |                                                                                                                                                    | DRM-24V120W1PN | ●     | ●     |                | 5.0A           | 120W         | 85-264Vac (DC input range 88-375Vdc)  |                                       |    |
|                       |                                                                                                                                                    | DRM-24V240W1PN | ●     | ●     |                | 10.0A          | 240W         | 85-276Vac (DC input range 88-375Vdc)  |                                       |    |
|                       |                                                                                                                                                    | DRM-24V480W1PN | ●     | ●     |                | 20.0A          | 480W         |                                       |                                       |    |
|                       |                                                                                                                                                    | DRM-24V960W1PN | ●     | ●     |                | 40.0A          | 960W         | 85-264Vac                             |                                       |    |
|                       | CliQ VA <ul style="list-style-type: none"><li>Smart monitoring function</li><li>Advanced Power Boost</li></ul>                                     | DRV-24V120W1PN | ●     | ●     | 24V            | 5.0A           | 120W         | 85-264Vac (DC input range 88-375Vdc)  | 27                                    |    |
|                       |                                                                                                                                                    | DRV-24V240W1PN | ●     | ●     |                | 10.0A          | 240W         | 85-276Vac (DC input range 88-375Vdc)  |                                       |    |
|                       |                                                                                                                                                    | DRV-24V480W1PN | ●     | ●     |                | 20.0A          | 480W         |                                       |                                       |    |
|                       | Lyte <ul style="list-style-type: none"><li>Competitively priced</li><li>Built-in constant current circuit</li></ul>                                | DRL-24V120W1A□ | ●     |       | 24V            | 5.0A           | 120W         | 85-264Vac (DC input range 120-375Vdc) | 28                                    |    |
|                       |                                                                                                                                                    | DRL-24V240W1A□ | ●     | ●     |                | 10.0A          | 240W         |                                       |                                       |    |
|                       |                                                                                                                                                    | DRL-24V480W1A□ | ●     | ●     |                | 20.0A          | 480W         |                                       |                                       |    |
|                       |                                                                                                                                                    | DRL-48V120W1A□ | ●     |       | 48V            | 2.5A           | 120W         |                                       |                                       |    |
|                       | Chrome <ul style="list-style-type: none"><li>Compact</li><li>Class II double isolation</li><li>NEC Class 2</li></ul>                               | DRC-5V10W1A□   | ●     |       | 5V             | 1.5A           | 7.5W         | 90-264Vac                             | 29                                    |    |
|                       |                                                                                                                                                    | DRC-12V10W1A□  | ●     |       | 12V            | 0.83A          | 10W          |                                       |                                       |    |
|                       |                                                                                                                                                    | DRC-12V30W1A□  | ●     |       | 2.1A           | 25.2W          |              |                                       |                                       |    |
|                       |                                                                                                                                                    | DRC-12V60W1A□  | ●     |       | 4.5A           | 54W            |              |                                       |                                       |    |
|                       |                                                                                                                                                    | DRC-12V100W1AZ | ●     |       | 6.0A           | 72W            |              |                                       |                                       |    |
|                       |                                                                                                                                                    | DRC-24V10W1A□  | ●     |       | 24V            | 0.42A          | 10W          | 90-264Vac                             | 30                                    |    |
|                       |                                                                                                                                                    | DRC-24V10W1HZ  | ●     |       |                | 0.42A          | 10W          |                                       |                                       |    |
|                       |                                                                                                                                                    | DRC-24V30W1A□  | ●     |       |                | 1.25A          | 30W          |                                       |                                       |    |
|                       |                                                                                                                                                    | DRC-24V60W1A□  | ●     |       |                | 2.5A           | 60W          |                                       |                                       |    |
|                       |                                                                                                                                                    | DRC-24V100W1A□ | ●     |       |                | 3.8A           | 91.2W        | 90-264Vac (DC input range 120-375Vdc) |                                       |    |
|                       | Sync <ul style="list-style-type: none"><li>Compact</li><li>NEC Class 2</li><li>Competitively priced</li></ul>                                      | DRS-5V30W1NZ   | ●     |       | 5V             | 3.0A           | 15W          | 85-264Vac (DC input range 120-375Vdc) | 31                                    |    |
|                       |                                                                                                                                                    | DRS-5V50W1A□   | ●     |       |                | 6.0A           | 30W          |                                       |                                       |    |
|                       |                                                                                                                                                    | DRS-5V50W1N□   | ●     |       |                | 5.0A           | 25W          |                                       |                                       |    |
|                       |                                                                                                                                                    | DRS-12V50W1N□  | ●     |       | 12V            | 4.0A           | 48W          | 85-264Vac                             | 85-264Vac (DC input range 120-375Vdc) | 32 |
|                       |                                                                                                                                                    | DRS-24V30W1AZ  | ●     |       | 24V            | 1.25A          | 30W          |                                       |                                       |    |
|                       |                                                                                                                                                    | DRS-24V30W1NZ  | ●     |       |                | 1.25A          | 30W          |                                       |                                       |    |
| DRS-24V50W1N□         |                                                                                                                                                    | ●              |       | 2.1A  |                | 50W            |              |                                       |                                       |    |
| DRS-24V100W1A□        |                                                                                                                                                    | ●              | ●     | 4.0A  |                | 96W            |              |                                       |                                       |    |
| DRS-24V100W1N□        | ●                                                                                                                                                  | ●              | 3.8A  | 91.2W |                |                |              |                                       |                                       |    |

\* DC input is certified for selected models

## DIN Rail Power Supply Model Numbering

| DR       | M –                                                    | XXV            | XXXW         | 1                               | P                                       | N                                                                                                              |
|----------|--------------------------------------------------------|----------------|--------------|---------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|
| DIN Rail | Product Series<br>M - CliQ M Series                    | Output Voltage | Output Power | Phase Input<br>1 - Single Phase | Advanced Power<br>Boost (APB)           | N - Metal Case, without Class I, Div 2 and<br>ATEX approvals                                                   |
| DR       | V –                                                    | XXV            | XXXW         | 1                               | P                                       | N                                                                                                              |
| DIN Rail | Product Series<br>V - CliQ VA Series                   | Output Voltage | Output Power | Phase Input<br>1 - Single Phase | Advanced Power<br>Boost (APB)           | N - Metal Case, without Class I, Div 2 and<br>ATEX approvals                                                   |
| DR       | L –                                                    | XXV            | XXXW         | 1                               | A                                       | □                                                                                                              |
| DIN Rail | Product Series<br>L - Lyte Series                      | Output Voltage | Output Power | Phase Input<br>1 - Single Phase | Standard Bracket                        | A - Without DC OK Relay Contact<br>S - With DC OK Relay Contact                                                |
| DR       | C –                                                    | XXV            | XXXW         | 1                               | □                                       | □                                                                                                              |
| DIN Rail | Product Type<br>C - Isolation Class II<br>Power Supply | Output Voltage | Output Power | Phase Input<br>1 - Single Phase | A - No PFC<br>H - Household<br>Approval | Z - Black Plastic Case<br>G - Grey Plastic Case<br>C - Black Plastic Case with conformal coating <sup>1)</sup> |
| DR       | S –                                                    | XXV            | XXXW         | 1                               | □                                       | □                                                                                                              |
| DIN Rail | Product Series<br>S - Sync Series                      | Output Voltage | Output Power | Phase Input<br>1 - Single Phase | A - Non NEC Class 2<br>N - NEC Class 2  | Z - Without DC OK Relay Contact<br>R - With DC OK Relay Contact                                                |

1) Options for DRC-24V60W1A□ and DRC-24V100W1A□ only

# Selection Guide

## Delta Industrial Power Supplies

New products are frequently introduced. Please visit [www.DeltaPSU.com](http://www.DeltaPSU.com) for latest product updates.

| Product Type             | Series                                                                                                        | Model Name     | Phase | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range                          | Page |
|--------------------------|---------------------------------------------------------------------------------------------------------------|----------------|-------|-----|----------------|----------------|--------------|----------------------------------------------|------|
| Panel Mount Power Supply | PMT                                                                                                           | PMT-4V350W1A□  | ●     |     | 4.2V           | 60.0A          | 252W         | 90-132Vac, 180-264Vac (Selectable by Switch) | 35   |
|                          |                                                                                                               | PM□-5V35W1A□   | ●     |     | 5V             | 7.0A           | 35W          | 85-264Vac                                    |      |
|                          |                                                                                                               | PM□-5V50W1A□   | ●     |     |                | 10.0A          | 50W          |                                              |      |
|                          |                                                                                                               | PMT-5V350W1A□  | ●     |     |                | 60.0A          | 300W         | 90-132Vac, 180-264Vac (Selectable by Switch) |      |
|                          |                                                                                                               | PM□-12V35W1A□  | ●     |     | 12V            | 2.92A          | 35W          | 90-264Vac                                    | 36   |
|                          |                                                                                                               | PM□-12V50W1A□  | ●     |     |                | 4.2A           | 50W          |                                              |      |
|                          |                                                                                                               | PM□-12V100W1A□ | ●     |     |                | 8.5A           | 100W         | 90-132Vac, 180-264Vac (Selectable by Switch) |      |
|                          |                                                                                                               | PM□-12V150W1A□ | ●     |     |                | 12.5A          | 150W         |                                              |      |
|                          |                                                                                                               | PMT-12V350W1A□ | ●     |     |                | 29.0A          | 348W         |                                              |      |
|                          |                                                                                                               | PM□-15V50W1A□  | ●     |     | 15V            | 3.4A           | 50W          | 85-264Vac                                    | 37   |
|                          |                                                                                                               | PM□-24V35W1A□  | ●     |     | 24V            | 1.46A          | 35W          | 90-264Vac                                    |      |
|                          |                                                                                                               | PM□-24V50W1A□  | ●     |     |                | 2.09A          | 50W          |                                              |      |
|                          |                                                                                                               | PM□-24V100W1A□ | ●     |     |                | 4.5A           | 100W         | 90-132Vac, 180-264Vac (Selectable by Switch) |      |
|                          |                                                                                                               | PM□-24V150W1A□ | ●     |     |                | 6.5A           | 150W         |                                              | 38   |
|                          |                                                                                                               | PM□-24V200W1A□ | ●     |     |                | 8.8A           | 200W         | 90-132Vac, 180-264Vac (Selectable by Switch) |      |
|                          |                                                                                                               | PMT-24V350W1AG | ●     |     |                | 14.6A          | 350W         |                                              |      |
|                          |                                                                                                               | PMT-24V350W1AM | ●     |     |                | 14.6A          | 350W         |                                              |      |
|                          |                                                                                                               | PMT-24V350W1AK | ●     |     |                | 14.6A          | 350W         |                                              |      |
|                          |                                                                                                               | PMT-24V350W1AR | ●     |     |                | 14.6A          | 350W         |                                              |      |
|                          |                                                                                                               | PMT-36V350W1A□ | ●     |     | 36V            | 9.7A           | 349.2W       | 90-132Vac, 180-264Vac (Selectable by Switch) | 39   |
|                          |                                                                                                               | PM□-48V150W1A□ | ●     |     | 48V            | 3.3A           | 150W         |                                              |      |
|                          |                                                                                                               | PMT-48V350W1A□ | ●     |     |                | 7.3A           | 350W         |                                              |      |
|                          |                                                                                                               | PM□-D1V100W1A□ | ●     |     | 12V/5V         | 7.0A/3.0A      | 100W         | 88-132Vac, 176-264Vac (Selectable by Switch) |      |
|                          |                                                                                                               | PM□-D2V100W1A□ | ●     |     | 24V/5V         | 3.5A/3.0A      | 100W         |                                              | 40   |
| PMT2                     | <ul style="list-style-type: none"> <li>Universal AC input voltage</li> <li>Low profile 30mm height</li> </ul> | PMT-12V50W2BA  | ●     |     | 12V            | 4.2A           | 50W          | 90-264Vac                                    |      |
|                          |                                                                                                               | PMT-12V100W2BA | ●     |     |                | 8.5A           | 100W         |                                              |      |
|                          |                                                                                                               | PMT-12V150W2BA | ●     |     |                | 12.5A          | 150W         | 90-132Vac, 170-264Vac (Selectable by Switch) |      |
|                          |                                                                                                               | PMT-24V50W2BA  | ●     |     | 24V            | 2.2A           | 50W          | 90-264Vac                                    |      |
|                          |                                                                                                               | PMT-24V100W2BA | ●     |     |                | 4.5A           | 100W         |                                              |      |
|                          |                                                                                                               | PMT-24V150W2BA | ●     |     |                | 6.25A          | 150W         | 90-132Vac, 170-264Vac (Selectable by Switch) |      |

### Panel Mount Power Supply Model Numbering

| CC Code <sup>6)</sup> |                                                                                           |                                                                        |              |                             |        |                                                                                                                                                                                                                                                                                                       |                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------|-----------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| PM                    | □ -                                                                                       | XXV                                                                    | XXXW         | 1                           | A      | □                                                                                                                                                                                                                                                                                                     | □                                                                                                                                           |
| Panel Mount           | Product Type<br>T - Enclosed<br>L - L Frame <sup>1)</sup><br>B - Open Frame <sup>2)</sup> | Output Voltage                                                         | Output Power | Phase Input<br>Single Phase | No PFC | Connector Type<br><u>With UL, TUV, CE, CCC</u><br>A - Terminal Block<br>G - Front Face <sup>3) 5)</sup><br>H - Harness <sup>3)</sup><br><br><u>With UL, TUV, CE</u><br>R - Terminal Block<br>K - Front Face <sup>4)</sup><br><br><u>With UL</u><br>M - Terminal Block <sup>5)</sup><br>N - Front Face | Blank - Without connector cover<br>A - With connector cover<br>B - With conformal coating<br>C - With conformal coating and connector cover |
| PM                    | □ -                                                                                       | XXV                                                                    | XXXW         | 1                           | A      | □                                                                                                                                                                                                                                                                                                     | □                                                                                                                                           |
| Panel Mount           | Product Type<br>T - Enclosed<br>L - L Frame <sup>1)</sup>                                 | Output Voltage<br><u>Dual Output</u><br>D1 - 12V / 5V<br>D2 - 24V / 5V | Output Power | Phase Input<br>Single Phase | No PFC | Connector Type<br>A - Terminal Block<br>G - Front Face <sup>7)</sup><br>H - Harness <sup>7)</sup>                                                                                                                                                                                                     | Blank - Without connector cover<br>B - With conformal coating                                                                               |

1) Options for 35W-200W

2) Options for 35W and 50W (except for 5V/35W, 5V/50W and 15V/50W models)

3) Options (Harness connector is not available for 5V/50W model)

4) Options for PMT-24V350W1AK, PMT-36V350W1A□ and PMT-48V350W1A□

5) PMT-24V350W1AG and PMT-24V350W1AM is certified to UL only

6) Options for Terminal Block with Enclosed type only

A - For 4V/350W, 5V/350W, 24V/35W-100W models

B - For 4V/350W, 5V/350W, 12V/35W-150W, 24V/35W-200W models

C - For PMT-4V350W1AM and PMT-5V350W1AM

7) Options for dual output

| CC Code <sup>1)</sup> |                              |                |              |                                  |                           |                                      |                                                             |
|-----------------------|------------------------------|----------------|--------------|----------------------------------|---------------------------|--------------------------------------|-------------------------------------------------------------|
| PM                    | T -                          | XXV            | XXXW         | 2                                | B                         | A                                    | □                                                           |
| Panel Mount           | Product Type<br>T - Enclosed | Output Voltage | Output Power | Single Phase<br>with Low Profile | Family Code<br>B - No PFC | Connector Type<br>A - Terminal Block | Blank - Without connector cover<br>A - With connector cover |

1) Options



| Product Type             | Series                                                                                                  | Model Name     | Phase | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range*                   | Page |
|--------------------------|---------------------------------------------------------------------------------------------------------|----------------|-------|-----|----------------|----------------|--------------|----------------------------------------|------|
|                          |                                                                                                         |                | 1     |     |                |                |              |                                        |      |
| Panel Mount Power Supply | PMC <ul style="list-style-type: none"><li>Aluminium casing</li><li>Universal AC input voltage</li></ul> | PMC-05V015W1AA | ●     |     | 5V             | 3.0A           | 15W          | 85-264Vac (DC input range 125-375Vdc)  | 41   |
|                          |                                                                                                         | PMC-05V035W1A□ | ●     |     |                | 7.0A           | 35W          |                                        |      |
|                          |                                                                                                         | PMC-05V050W1AA | ●     |     |                | 10.0A          | 50W          |                                        |      |
|                          |                                                                                                         | PMC-12V035W1A□ | ●     |     | 12V            | 3.0A           | 35W          | 85-264Vac (DC input range 125-375Vdc)  | 42   |
|                          |                                                                                                         | PMC-12V050W1A□ | ●     |     |                | 4.17A          | 50W          |                                        |      |
|                          |                                                                                                         | PMC-12V060W1NA | ●     |     |                | 5.0A           | 60W          |                                        |      |
|                          |                                                                                                         | PMC-12V100W1A□ | ●     |     |                | 8.34A          | 100W         |                                        |      |
|                          |                                                                                                         | PMC-12V150W1B□ | ●     | ●   |                | 12.5A          | 150W         |                                        |      |
|                          |                                                                                                         | PMC-12V600W1BA | ●     | ●   |                | 50.0A          | 600W         |                                        |      |
|                          |                                                                                                         | PMC-24V035W1A□ | ●     |     | 24V            | 1.46A          | 35W          | 85-264Vac (DC input range 125-375Vdc)  | 44   |
|                          |                                                                                                         | PMC-24V050W1A□ | ●     |     |                | 2.1A           | 50W          |                                        |      |
|                          |                                                                                                         | PMC-24V075W1A□ | ●     |     |                | 3.12A          | 75W          |                                        |      |
|                          |                                                                                                         | PMC-24V100W1A□ | ●     |     |                | 4.17A          | 100W         |                                        |      |
|                          |                                                                                                         | PMC-24V150W1A□ | ●     |     |                | 6.25A          | 150W         |                                        |      |
|                          |                                                                                                         | PMC-24V150W2AA | ●     |     |                | 6.25A          | 150W         | 180-264Vac (DC input range 220-375Vdc) | 45   |
|                          |                                                                                                         | PMC-24V150W1B□ | ●     | ●   |                | 6.25A          | 150W         | 85-264Vac (DC input range 125-375Vdc)  |      |
|                          |                                                                                                         | PMC-24V300W1BA | ●     | ●   |                | 12.5A          | 300W         | 85-264Vac (DC input range 120-370Vdc)  |      |
|                          |                                                                                                         | PMC-24V600W1BA | ●     | ●   |                | 25.0A          | 600W         |                                        |      |
|                          |                                                                                                         | PMC-DSPV100W1A | ●     |     | 24V/5V         | 2.7A/7.0A      | 100W         | 85-264Vac (DC input range 125-375Vdc)  | 46   |
|                          |                                                                                                         | PMC-48V150W1BA | ●     | ●   | 48V            | 3.125A         | 150W         | 85-264Vac (DC input range 125-375Vdc)  |      |
|                          |                                                                                                         | PMC-48V600W1BA | ●     | ●   |                | 12.5A          | 600W         | 85-264Vac (DC input range 120-370Vdc)  |      |

\* DC input is certified for selected models

## Panel Mount Power Supply Model Numbering

| PM          | C –                          | XXV            | XXXW                                | □                                                                                                      | □                                             | □                                                                                                                                                   |
|-------------|------------------------------|----------------|-------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Panel Mount | Product Type<br>C - Enclosed | Output Voltage | Output Power                        | Phase Input<br>1 - Single Phase, Wide Range Input Voltage<br>2 - Single Phase, High Line Input Voltage | A - No PFC<br>B - With PFC<br>N - NEC Class 2 | Connector Type<br>A - Terminal Block <sup>3)</sup><br>J - IP20 Connector <sup>1)</sup><br>L - Front Face <sup>2)</sup><br>H - Harness <sup>1)</sup> |
| PM          | C –                          | D              | SPV                                 | 100W                                                                                                   | 1                                             | A                                                                                                                                                   |
| Panel Mount | Product Type<br>C - Enclosed | Dual Output    | Output Voltage<br>S - 24V<br>P - 5V | Output Power                                                                                           | Phase Input<br>Single Phase                   | Delta Standard                                                                                                                                      |

1) Options

2) Options for 150W with PFC

3) For PMC-05V015W1AA and PMC-□V600W1BA, the connector type is a Front Face connector.  
For PMC-24V300W1BA, the connector type is an IP20 connector.

## Connector Options



Terminal Block connector



IP20 connector



Front Face connector



Harness connector

# Selection Guide

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| Product Type             | Series                                                                                                                                        | Model Name     | Phase<br>1 | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range*                  | Page |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|-----|----------------|----------------|--------------|---------------------------------------|------|
| Panel Mount Power Supply | PMH<br>• IEC 60335, IEC 61558 approvals<br>• Withstand line input voltage surge 300Vac up to 7 seconds<br>• Low profile (for selected models) | PMH-24V50WCA□  | ●          |     | 24V            | 2.1A           | 50W          | 85-264Vac (DC input range 120-375Vdc) | 47   |
|                          |                                                                                                                                               | PMH-24V100WCA□ | ●          |     |                | 4.16A          | 100W         |                                       |      |
|                          |                                                                                                                                               | PMH-24V100WCC□ | ●          |     |                | 4.16A          | 100W         |                                       |      |
|                          |                                                                                                                                               | PMH-24V100WCN□ | ●          |     |                | 3.8A           | 91.2W        |                                       |      |
|                          |                                                                                                                                               | PMH-24V150WCB□ | ●          | ●   |                | 6.25A          | 150W         | 85-264Vac (DC input range 120-375Vdc) | 48   |
|                          |                                                                                                                                               | PMH-24V150WCD□ | ●          | ●   |                | 6.25A          | 150W         |                                       |      |
|                          |                                                                                                                                               | PMH-24V200WCB□ | ●          | ●   |                | 8.33A          | 200W         |                                       |      |
|                          |                                                                                                                                               | PMH-12V100WCL□ | ●          |     | 12V            | 8.5A           | 100W         | 85-264Vac (DC input range 120-375Vdc) | 49   |
|                          |                                                                                                                                               | PMH-24V100WCL□ | ●          |     | 24V            | 4.5A           | 100W         |                                       |      |
|                          |                                                                                                                                               | PMH-24V100WCM□ | ●          |     |                | 3.8A           | 91.2W        |                                       |      |
|                          |                                                                                                                                               | PMH-24V150WCL□ | ●          |     |                | 6.5A           | 150W         |                                       |      |
|                          | PMF<br>• Remote ON/OFF<br>• Built-in PFC                                                                                                      | PMF-4V320WC□□  | ●          | ●   | 4.2V           | 55.0A          | 231W         | 85-264Vac                             | 50   |
|                          |                                                                                                                                               | PMF-5V320WC□□  | ●          | ●   | 5V             | 55.0A          | 275W         |                                       |      |
|                          |                                                                                                                                               | PMF-24V200WC□□ | ●          | ●   | 24V            | 8.4A           | 200W         |                                       |      |
|                          |                                                                                                                                               | PMF-24V240WC□□ | ●          | ●   |                | 10.0A          | 240W         |                                       |      |
|                          |                                                                                                                                               | PMF-24V320WC□□ | ●          | ●   |                | 13.3A          | 320W         |                                       |      |
|                          | PMR<br>• Thickness < 1U<br>• Built-in PFC                                                                                                     | PMR-4V320WC□A  | ●          | ●   | 4.2V           | 60.0A          | 252W         | 88-264Vac                             | 51   |
|                          |                                                                                                                                               | PMR-4V320WDAA  | ●          | ●   |                | 60.0A          | 252W         |                                       |      |
|                          |                                                                                                                                               | PMR-4V320WDGA  | ●          | ●   |                | 60.0A          | 252W         |                                       |      |
|                          |                                                                                                                                               | PMR-4V320WDBA  | ●          | ●   |                | 60.0A          | 252W         |                                       |      |
|                          |                                                                                                                                               | PMR-4V320WDCA  | ●          | ●   |                | 60.0A          | 252W         |                                       |      |
|                          |                                                                                                                                               | PMR-5V320WC□A  | ●          | ●   | 5V             | 60.0A          | 300W         | 88-264Vac                             | 52   |
|                          |                                                                                                                                               | PMR-5V320WDAA  | ●          | ●   |                | 60.0A          | 300W         |                                       |      |
|                          |                                                                                                                                               | PMR-5V320WDGA  | ●          | ●   |                | 60.0A          | 300W         |                                       |      |
|                          |                                                                                                                                               | PMR-5V320WDBA  | ●          | ●   |                | 60.0A          | 300W         |                                       |      |
|                          |                                                                                                                                               | PMR-5V320WDCA  | ●          | ●   |                | 60.0A          | 300W         |                                       |      |

\* DC input is certified for selected models

### Panel Mount Power Supply Model Numbering

| PM          | H –                                    | XXV            | XXXW         | C                            | □                                                                                                                                                                                  | □                                                                                                                                                                                                                              |
|-------------|----------------------------------------|----------------|--------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Panel Mount | Product Series<br>H - Household Series | Output Voltage | Output Power | Package Type<br>C - Enclosed | Pollution Degree 2<br>A - No PFC<br>B - With PFC<br><br>Pollution Degree 3<br>C - No PFC<br>D - With PFC<br>L - Low Profile<br>M - Low Profile with NEC Class 2<br>N - NEC Class 2 | Output Non-Isolated to PE (PELV)<br>A - Terminal Block<br>J - IP20 connector<br>L - Front Face<br>H - Harness<br><br>Output Isolated to PE (SELV)<br>S - Terminal Block<br>U - IP20 Connector<br>V - Front Face<br>T - Harness |

| PM          | F –                              | XXV            | XXXW         | C                            | □                                                                    | □                                                                        |
|-------------|----------------------------------|----------------|--------------|------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------|
| Panel Mount | Product Series<br>F - PFC Series | Output Voltage | Output Power | Package Type<br>C - Enclosed | Connector Type<br>G - Front Face<br>A - Terminal Block <sup>1)</sup> | Variable<br>B - No Remote ON/OFF<br>R - With Remote ON/OFF <sup>1)</sup> |

| PM          | R –                                                  | XXV            | XXXW         | □                                                                 | □                                                                                                                                                                                  | □                                      |
|-------------|------------------------------------------------------|----------------|--------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Panel Mount | Product Series<br>R - Standard Rack Type Series (1U) | Output Voltage | Output Power | Package Type<br>C - Enclosed with Fan<br>D - Enclosed without Fan | Connector Type<br>A - Terminal Block<br>B - Terminal Block (Parallel Operation) <sup>2)</sup><br>G - Front Face <sup>1)</sup><br>C - Front Face (Parallel Operation) <sup>2)</sup> | Variable<br>A - With conformal coating |

1) Options

2) Options for Enclosed without Fan (PMR-□V320WDBA and PMR-□V320WDCA)

| Product Type             | Series                                       | Model Name     | Phase | PFC | Output Voltage | Output Current                                                                         | Output Power | Input Voltage Range                             | Page |
|--------------------------|----------------------------------------------|----------------|-------|-----|----------------|----------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------|
|                          |                                              |                | 1     |     |                |                                                                                        |              |                                                 |      |
| Panel Mount Power Supply | PMU<br>• Power supply with integrated DC-UPS | PMU-13V155W□BA | ●     |     | 13.8V          | V1: 9.5A<br>B+: 1.5A                                                                   | 151W         | 90-132Vac, 180-264Vac<br>(Selectable by Switch) | 53   |
|                          |                                              | PMU-13V155W□CA | ●     |     |                |                                                                                        | 151W         |                                                 |      |
|                          |                                              | PMU-27V155W□BA | ●     |     | 27.6V          | V1: 4.0A (Enclosed)<br>B+: 1.5A (Enclosed)<br>V1: 4.3A (L Frame)<br>B+: 1.2A (L Frame) | 151W         |                                                 |      |
|                          |                                              | PMU-27V155W□CA | ●     |     |                |                                                                                        | 151W         |                                                 |      |

## Panel Mount Power Supply Model Numbering

| PM          | U –                                        | XXV            | XXXW         | □                                                         | □                                               | A                                    |
|-------------|--------------------------------------------|----------------|--------------|-----------------------------------------------------------|-------------------------------------------------|--------------------------------------|
| Panel Mount | Product Series<br>U - With DC UPS Function | Output Voltage | Output Power | Package Type<br>C - Enclosed<br>L - L Frame <sup>1)</sup> | Signal<br>B - Without Signal<br>C - With Signal | Connector Type<br>A - Terminal Block |

1) Options

| Product Type            | Series                                        | Model Name     | Phase | PFC | Output Voltage                   | Output Current                           | Output Power                          | Input Voltage Range | Page |
|-------------------------|-----------------------------------------------|----------------|-------|-----|----------------------------------|------------------------------------------|---------------------------------------|---------------------|------|
|                         |                                               |                | 1     |     |                                  |                                          |                                       |                     |      |
| Open Frame Power Supply | PJT<br>• High efficiency<br>• Small footprint | PJT-12V40WBA□  | ●     |     | 12V                              | 3.33A                                    | 40W                                   | 90-264Vac           | 56   |
|                         |                                               | PJT-12V65WBA□  | ●     |     |                                  | 5.0A                                     | 60W                                   |                     |      |
|                         |                                               | PJT-12V100WBA□ | ●     | ●   |                                  | 8.33A                                    | 100W                                  |                     |      |
|                         |                                               | PJT-12V100WBB□ | ●     |     |                                  | 6.67A (Convection)<br>8.33A (Forced Air) | 80W (Convection)<br>100W (Forced Air) |                     |      |
|                         |                                               | PJT-15V40WBA□  | ●     |     | 15V                              | 2.67A                                    | 40W                                   | 90-264Vac           | 57   |
|                         |                                               | PJT-15V65WBA□  | ●     |     |                                  | 4.2A                                     | 65W                                   |                     |      |
|                         |                                               | PJT-15V100WBA□ | ●     | ●   |                                  | 6.67A                                    | 100W                                  |                     |      |
|                         |                                               | PJT-15V100WBB□ | ●     |     |                                  | 5.33A (Convection)<br>6.67A (Forced Air) | 80W (Convection)<br>100W (Forced Air) |                     |      |
|                         |                                               | PJT-18V40WBA□  | ●     |     | 18V                              | 2.22A                                    | 40W                                   | 90-264Vac           | 58   |
|                         |                                               | PJT-18V65WBA□  | ●     |     |                                  | 3.61A                                    | 65W                                   |                     |      |
|                         |                                               | PJT-18V100WBA□ | ●     | ●   |                                  | 5.55A                                    | 100W                                  |                     |      |
|                         |                                               | PJT-18V100WBB□ | ●     |     |                                  | 4.44A (Convection)<br>5.55A (Forced Air) | 80W (Convection)<br>100W (Forced Air) |                     |      |
|                         |                                               | PJT-24V40WBA□  | ●     |     | 24V                              | 1.66A                                    | 40W                                   | 90-264Vac           | 59   |
|                         |                                               | PJT-24V65WBA□  | ●     |     |                                  | 2.71A                                    | 65W                                   |                     |      |
|                         |                                               | PJT-24V100WBA□ | ●     | ●   |                                  | 4.17A                                    | 100W                                  |                     |      |
|                         |                                               | PJT-24V100WBB□ | ●     |     |                                  | 3.33A (Convection)<br>4.17A (Forced Air) | 80W (Convection)<br>100W (Forced Air) |                     |      |
|                         |                                               | PJT-27V150WBNA | ●     | ●   | V1: 27V<br>V <sub>SB</sub> : 12V | V1: 5.55A<br>V <sub>SB</sub> : 0.5A      | 150W                                  | 85-264Vac           |      |

## Open Frame Power Supply Model Numbering

| PJ         | T –                                          | XXV            | XXXW         | B                              | □                                                          | □                                                                                                           |
|------------|----------------------------------------------|----------------|--------------|--------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Open Frame | Product Series<br>T - ITE Application Series | Output Voltage | Output Power | Package Type<br>B - Open Frame | A - Family Code<br>B - Family Code<br>N - No Remote ON/OFF | Connector Type<br>A - JST connector<br>B - Molex connector <sup>1)</sup><br>C - JWT connector <sup>1)</sup> |

1) Options

# Selection Guide

## Delta Industrial Power Supplies

New products are frequently introduced. Please visit [www.DeltaPSU.com](http://www.DeltaPSU.com) for latest product updates.

| Product Type            | Series | Model Name     | Phase | PFC | Output Voltage                   | Output Current                      | Output Power | Input Voltage Range | Page |
|-------------------------|--------|----------------|-------|-----|----------------------------------|-------------------------------------|--------------|---------------------|------|
|                         |        |                | 1     |     |                                  |                                     |              |                     |      |
| Open Frame Power Supply | PJ     | PJ-12V15W□NA   | ●     |     | 12V                              | 1.3A                                | 15W          | 85-264Vac           | 60   |
|                         |        | PJ-12V30W□NA   | ●     |     |                                  | 2.5A                                | 30W          |                     |      |
|                         |        | PJ-12V50W□NA   | ●     | ●   |                                  | 4.3A                                | 50W          |                     |      |
|                         |        | PJ-12V100W□□A  | ●     | ●   |                                  | 8.5A                                | 100W         |                     |      |
|                         |        | PJ-12V150W□□A  | ●     | ●   |                                  | 12.5A                               | 150W         |                     |      |
|                         |        | PJ-24V30W□NA   | ●     |     | 24V                              | 1.25A                               | 30W          | 85-264Vac           | 61   |
|                         |        | PJ-24V50W□NA   | ●     | ●   |                                  | 2.1A                                | 50W          |                     |      |
|                         |        | PJ-24V100W□□A  | ●     | ●   |                                  | 4.3A                                | 100W         |                     |      |
|                         |        | PJ-24V150W□□A  | ●     | ●   |                                  | 6.3A                                | 150W         |                     |      |
|                         |        | PJ-5V15W□NA    | ●     |     | 5V                               | 3.0A                                | 15W          | 85-264Vac           | 62   |
|                         |        | PJ-48V50W□NA   | ●     | ●   | 48V                              | 1.1A                                | 50W          |                     |      |
|                         | PJB    | PJB-24V100W□□A | ●     | ●   | 24V                              | 4.3A                                | 100W         | 85-264Vac           | 63   |
|                         |        | PJB-24V150W□□A | ●     | ●   |                                  | 6.3A                                | 150W         |                     |      |
|                         |        | PJB-24V240W□□A | ●     | ●   |                                  | 10.0A                               | 240W         |                     |      |
|                         | PJH    | PJH-24V300WBB□ | ●     | ●   | V1: 24V<br>V <sub>SB</sub> : 5V  | V1: 12.5A<br>V <sub>SB</sub> : 1.2A | 300W         | 90-264Vac           | 64   |
|                         |        | PJH-24V300WBC□ | ●     | ●   | V1: 24V<br>V <sub>SB</sub> : 12V | V1: 12.5A<br>V <sub>SB</sub> : 0.5A | 300W         |                     |      |
|                         |        | PJH-36V300WBB□ | ●     | ●   | V1: 36V<br>V <sub>SB</sub> : 5V  | V1: 8.33A<br>V <sub>SB</sub> : 1.2A | 300W         |                     |      |
|                         |        | PJH-36V300WBC□ | ●     | ●   | V1: 36V<br>V <sub>SB</sub> : 12V | V1: 8.33A<br>V <sub>SB</sub> : 0.5A | 300W         |                     |      |
|                         | PJU    | PJU-13V60W□A□  | ●     |     | V1: 13.8V<br>B+: 13.6V           | V1: 3.9A<br>B+: 0.4A                | 60W          | 90-264Vac           | 65   |
|                         |        | PJU-13V60W□B□  | ●     |     |                                  | V1: 3.9A<br>B+: 0.4A                | 60W          |                     |      |
|                         |        | PJU-27V60W□A□  | ●     |     | V1: 27.6V<br>B+: 12.4V           | V1: 1.75A<br>B+: 0.4A               | 60W          |                     |      |
|                         |        | PJU-27V60W□B□  | ●     |     |                                  | V1: 1.75A<br>B+: 0.4A               | 60W          |                     |      |

### Open Frame Power Supply Model Numbering

|            |  |                |              |                                                                                           |                                                                                        |                |
|------------|--|----------------|--------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------|
| PJ –       |  | XXV            | XXXW         | □                                                                                         | □                                                                                      | A              |
| Open Frame |  | Output Voltage | Output Power | Product Type<br>C - Enclosed<br>L - L Frame <sup>1)</sup><br>B - Open Frame <sup>1)</sup> | Remote ON/OFF Function<br>N - No Remote ON/OFF<br>R - With Remote ON/OFF <sup>2)</sup> | Delta Standard |

|            |                                          |                |              |                                                                                           |                                                                                        |                |
|------------|------------------------------------------|----------------|--------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------|
| PJ         | B –                                      | XXV            | XXXW         | □                                                                                         | □                                                                                      | A              |
| Open Frame | Product Series<br>B - Power Boost Series | Output Voltage | Output Power | Package Type<br>C - Enclosed<br>L - L Frame <sup>1)</sup><br>B - Open Frame <sup>1)</sup> | Remote ON/OFF Function<br>N - No Remote ON/OFF<br>R - With Remote ON/OFF <sup>1)</sup> | Delta Standard |

|            |                                      |                |              |                                |                                                    |                                                                                                             |
|------------|--------------------------------------|----------------|--------------|--------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| PJ         | H –                                  | XXV            | XXXW         | B                              | □                                                  | □                                                                                                           |
| Open Frame | Product Type<br>H - Household Series | Output Voltage | Output Power | Package Type<br>B - Open Frame | Voltage Standby<br>B - 5V <sup>1)</sup><br>C - 12V | Connector Type<br>A - JST connector<br>B - Molex connector <sup>1)</sup><br>C - JWT connector <sup>1)</sup> |

|            |                                            |                |              |                                                                                           |                                                               |                                                                                                              |
|------------|--------------------------------------------|----------------|--------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| PJ         | U –                                        | XXV            | XXXW         | □                                                                                         | □                                                             | □                                                                                                            |
| Open Frame | Product Series<br>U - With DC-UPS Function | Output Voltage | Output Power | Package Type<br>C - Enclosed<br>L - L Frame <sup>1)</sup><br>B - Open Frame <sup>1)</sup> | Signal<br>A - Without Signal <sup>1)</sup><br>B - With Signal | Connector Type<br>A - Terminal Block<br>B - JST connector <sup>1)</sup><br>C - Molex connector <sup>1)</sup> |

<sup>1)</sup> Options

<sup>2)</sup> Options for 100W and above



| Product Type      | Series  | Model Name    | Output Voltage | Output Current | Input Current                                                                    | Input Voltage Range | Page |
|-------------------|---------|---------------|----------------|----------------|----------------------------------------------------------------------------------|---------------------|------|
| Redundancy Module | CliQ II | DRR-20□       | 22-60V         | 20.0A          | (1+1 Redundancy) =<br>Nominal 2 × 12.5A<br>(N+1 Redundancy) =<br>Nominal 2 × 10A | 22-60Vdc            | 67   |
|                   |         | DRR-40□       |                | 40.0A          | (1+1 Redundancy) =<br>Nominal 2 × 25A<br>(N+1 Redundancy) =<br>Nominal 2 × 20A   |                     |      |
| Buffer Module     | CliQ II | DRB-24V020AB□ | 24V            | 20.0A          | Charging Mode: < 0.6A                                                            | 22.8-28.8Vdc        | 68   |
|                   |         | DRB-24V040ABN |                | 40.0A          | Charging Mode: < 0.6A                                                            |                     |      |
| DC-UPS Module     | CliQ II | DRU-24V40ABN  | 24V            | 40.0A          | Charging Mode: 2.0A ± 1.0A                                                       | 24-28Vdc            | 69   |
|                   | Chrome  | DRU-24V10ACZ  |                | 10.0A          | Charging Mode: 0.5A ± 0.1A                                                       | 24-28Vdc            | 70   |

### Redundancy Module Model Numbering

| DR       | R –                                   | XX                                     | □                                                                             |
|----------|---------------------------------------|----------------------------------------|-------------------------------------------------------------------------------|
| DIN Rail | Product Type<br>R - Redundancy Module | Output Current<br>20 - 20A<br>40 - 40A | A - Metal Case, with Class I, Div 2<br>N - Metal Case, without Class I, Div 2 |

### DC-UPS Module and Buffer Module Model Numbering

| DR       | □ –                                                    | 24V            | XXXXA          | □                                       | □                                                                                                                         |
|----------|--------------------------------------------------------|----------------|----------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| DIN Rail | Product Type<br>U - DC-UPS Module<br>B - Buffer Module | Output Voltage | Output Current | B - CliQ II Series<br>C - Chrome Series | A - Metal Case, with Class I, Div 2<br>N - Metal Case, without Class I, Div 2<br>Z - Plastic Case, without Class I, Div 2 |

# Delta Industrial Power Supplies

## DIN Rail Power Supply



AR

### CliQ™



- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 3 seconds (24V/480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing (except 12V/15W, 12V/30W, 24V/48W and 24V/60W)
- Conformal coating on PCBAs to protect against common dust and chemical pollutants (except DRP-24V48W1AZ and DRP024V060W1AZ)
- Hazardous Locations approval to ATEX and Class I, Div 2 for selected models



AR

### CliQ II



- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 5 seconds (24V/480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing (except DRP024V060W1N□)
- Extreme low temperature cold start -40°C for selected models
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 for selected models



AR

### CliQ III

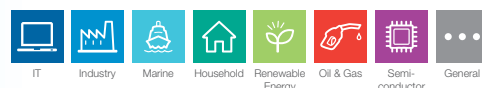


- Universal AC input voltage range
- Built-in constant current circuit for charging application
- Power Boost of 150% for 5 seconds
- SEMI F47 compliance at 120Vac
- Extreme low temperature cold start at -40°C
- Built-in DC OK Contact and LED indicator for DC OK
- Conformal coating on PCBA to protect against common dust and chemical pollutants



AR

### CliQ M



- Universal AC input voltage range
- High power density in corrosion resistant aluminium casing
- Power Boost of 150% up to 7 seconds
- Advanced Power Boost (APB)
- DNV GL and ABS approvals for maritime applications
- Built-in DC OK contact and LED indicator for DC OK/ Over Load
- Conformal coating on PCBAs to protect against common dust and chemical pollutants



AR

### CliQ VA



- Universal AC input voltage range
- LCD display monitoring the output current / voltage / peak current and temperature
- Life time expectancy alarm signal and monitoring
- Power Boost of 150% up to 7 seconds
- Advanced Power Boost (APB)
- DC OK Contact and LED indicator for DC OK/ Overload
- Conformal coating on PCBAs to protect against common dust and chemical pollutants



AR

## LYTE

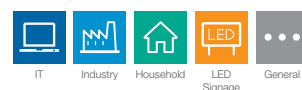


- Universal AC input voltage range
- High power density
- Built-in constant current circuit for reactive loads
- Built-in DC OK relay contact option available
- Compliance to SEMI F47 @ 200Vac
- 15kV common mode & 8kV differential mode ESD immunity
- Conformal coating on PCBAs to protect against common dust and chemical pollutants



AR

## CHROME



- Class II Double Isolation (No earth connection is required)
- Universal AC input voltage range and full power up to 55°C
- Power will not de-rate for the entire input voltage range
- Can be installed in compact cabinets
- NEC Class 2 and Limited Power Source (LPS) approvals (except DRC-12V100W1AZ)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and UL 508 (Industrial standard)



AR

## sync



- Ultra compact size
- Universal AC input voltage range and full power from -10°C to 55°C operation
- Up to 89.0% efficiency
- Low earth leakage current < 0.5mA @ 264Vac
- Built-in DC OK relay contact option available
- Extreme low temperature cold start at -40°C
- NEC Class 2 / Limited Power Source (LPS) certified

# CliQ DIN Rail Power Supply

## 12V Output



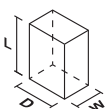
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 3 seconds
- Full corrosion resistant aluminium casing for 12V/60W and 12V/100W
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Multiple wire connections to terminals allowed
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRP012V015W1A□                                      | DRP012V030W1A□                                 | DRP012V060W1AA                               | DRP012V100W1AA                                 |
|---------------------------------------|-----------------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------|
| Output Voltage                        | 12V                                                 | 12V                                            | 12V                                          | 12V                                            |
| Output Voltage Range                  | 11-14V                                              | 11-14V                                         | 11-14V                                       | 11-14V                                         |
| Output Current                        | 0-1.25A                                             | 0-2.5A                                         | 0-5.0A                                       | 0-8.33A                                        |
| Output Power                          | 15W                                                 | 30W                                            | 60W                                          | 100W                                           |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          |                                                |                                              |                                                |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        |                                                |                                              |                                                |
| PARD (20MHz)                          | < 100mVpp                                           |                                                |                                              |                                                |
| Hold-up Time                          | > 22ms @ 115Vac, > 110ms @ 230Vac                   |                                                |                                              |                                                |
| INPUT                                 |                                                     |                                                |                                              |                                                |
| Phase Input                           | Single Phase                                        |                                                |                                              |                                                |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup> |                                                |                                              |                                                |
| Input Frequency                       | 47-63Hz                                             |                                                |                                              |                                                |
| Input Current                         | < 0.37A @ 115Vac,<br>< 0.22A @ 230Vac               | < 0.70A @ 115Vac,<br>< 0.42A @ 230Vac          | < 1.35A @ 115Vac,<br>< 0.80A @ 230Vac        | < 2.50A @ 115Vac,<br>< 1.50A @ 230Vac          |
| Efficiency <sup>2)</sup> at 100% Load | > 84.0% @ 115Vac,<br>> 83.0% @ 230Vac               | > 85.0% @ 115Vac & 230Vac                      | > 86.0% @ 115Vac & 230Vac                    | > 85.5% @ 115Vac,<br>> 87.5% @ 230Vac          |
| Max Inrush Current (Cold Start)       | < 30A @ 115Vac,<br>< 65A @ 230Vac                   | < 40A @ 115Vac,<br>< 80A @ 230Vac              | < 50A @ 115Vac,<br>< 100A @ 230Vac           | < 100A @ 115Vac,<br>No Damage @ 230Vac         |
| Power Factor                          | Conform to EN 61000-3-2                             |                                                |                                              |                                                |
| Leakage Current                       | < 1mA @ 240Vac                                      |                                                |                                              |                                                |
| MECHANICAL                            |                                                     |                                                |                                              |                                                |
| Case Cover / Chassis                  | Plastic                                             |                                                | Aluminium                                    |                                                |
| Dimensions (L × W × D)                | 100 × 32 × 100.6 mm<br>(3.94" × 1.26" × 3.96")      | 100 × 32 × 100.6 mm<br>(3.94" × 1.26" × 3.96") | 121 × 32 × 120 mm<br>(4.76" × 1.26" × 4.72") | 121 × 50 × 118.7 mm<br>(4.76" × 1.97" × 4.67") |
| Unit Weight                           | 0.18 kg (0.40 lb)                                   | 0.20 kg (0.44 lb)                              | 0.33 kg (0.73 lb)                            | 0.64 kg (1.41 lb)                              |
| Cooling System                        | Convection                                          |                                                |                                              |                                                |
| MTBF <sup>3)</sup>                    | > 500,000 hrs                                       | > 500,000 hrs                                  | > 500,000 hrs                                | > 500,000 hrs                                  |
| ENVIRONMENT                           |                                                     |                                                |                                              |                                                |
| Operating Temperature                 | -20°C to +80°C                                      |                                                |                                              |                                                |
| Storage Temperature                   | -25°C to +85°C                                      |                                                |                                              |                                                |
| Power De-rating                       | > 50°C (2.5% / °C), > 70°C (4% / °C)                |                                                |                                              |                                                |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                                |                                              |                                                |
| Operating Altitude                    | 0 to 2,000 m (0 to 6,560 ft)                        |                                                |                                              |                                                |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V Output



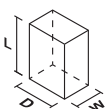
## HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 3 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing
- SEMI F47 Certified for selected models
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBAs to protect against common dust and chemical pollutants (except DRP-24V48W1AZ and DRP024V060W1AZ)
- Hazardous Locations approval to ATEX and Class I, Div 2 (except DRP-24V48W1AZ and DRP024V060W1AZ)

## GENERAL SPECIFICATIONS

| OUTPUT                                | DRP-24V48W1AZ                                                                  | DRP024V060W1AZ                                                      | DRP024V060W1AA                                  | DRP024V120W1AA                                 | DRP024V240W1AA                                 | DRP024V480W1AA                                  |
|---------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| Output Voltage                        | 24V                                                                            | 24V                                                                 | 24V                                             | 24V                                            | 24V                                            | 24V                                             |
| Output Voltage Range                  | 22-26V                                                                         | 22-28V                                                              | 22-28V                                          | 22-28V                                         | 22-28V                                         | 22-28V                                          |
| Output Current                        | 0-2.0A                                                                         | 0-2.5A                                                              | 0-2.5A                                          | 0-5.0A                                         | 0-10.0A                                        | 0-20.0A                                         |
| Output Power                          | 48W                                                                            | 60W                                                                 | 60W                                             | 120W                                           | 240W                                           | 480W                                            |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load), <u>DRP-24V48W1AZ</u> : < 1% typ.   |                                                                     |                                                 |                                                |                                                |                                                 |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)                                   |                                                                     |                                                 |                                                |                                                |                                                 |
| PARD (20MHz)                          | < 480mVpp                                                                      | < 240mVpp                                                           |                                                 |                                                |                                                |                                                 |
| Hold-up Time                          | > 10ms @ 115Vac,<br>> 60ms @ 230Vac                                            | > 20ms @ 115Vac, > 125ms @ 230Vac                                   |                                                 | > 35ms @ 115Vac,<br>> 70ms @ 230Vac            | > 20ms @ 115Vac & 230Vac                       |                                                 |
| INPUT                                 |                                                                                |                                                                     |                                                 |                                                |                                                |                                                 |
| Phase Input                           | Single Phase                                                                   |                                                                     |                                                 |                                                |                                                |                                                 |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>                            |                                                                     |                                                 |                                                |                                                |                                                 |
| Input Frequency                       | 47-63Hz                                                                        |                                                                     |                                                 |                                                |                                                |                                                 |
| Input Current                         | < 1.4A @ 115Vac,<br>< 0.7A @ 230Vac                                            | < 1.1A @ 115Vac, < 0.7A @ 230Vac                                    |                                                 | < 1.4A @ 115Vac,<br>< 0.8A @ 230Vac            | < 2.9A @ 115Vac,<br>< 1.5A @ 230Vac            | < 5.7A @ 115Vac,<br>< 2.8A @ 230Vac             |
| Efficiency <sup>2)</sup> at 100% Load | > 87.0% @ 115Vac<br>& 230Vac                                                   | > 86.0% @ 115Vac, > 87.0% @ 230Vac                                  |                                                 |                                                | > 89.0% @ 115Vac,<br>> 91.0% @ 230Vac          | > 85.0% @ 115Vac,<br>> 88.0% @ 230Vac           |
| Max Inrush Current<br>(Cold Start)    | < 28A @ 115Vac,<br>< 56A @ 230Vac                                              | < 40A @ 115Vac, < 80A @ 230Vac                                      |                                                 | < 80A @ 115Vac,<br>< 150A @ 230Vac             | < 40A @ 115Vac,<br>< 100A @ 230Vac             | < 50A @ 115Vac,<br>< 150A @ 230Vac              |
| Power Factor                          | Conform to EN 61000-3-2                                                        |                                                                     |                                                 | > 0.98 @ 115Vac,<br>> 0.87 @ 230Vac            | > 0.96 @ 115Vac,<br>> 0.90 @ 230Vac            | > 0.97 @ 115Vac,<br>> 0.95 @ 230Vac             |
| Leakage Current                       | < 1mA @ 240Vac                                                                 |                                                                     |                                                 |                                                |                                                | < 1.25mA @ 240Vac                               |
| MECHANICAL                            |                                                                                |                                                                     |                                                 |                                                |                                                |                                                 |
| Case Cover / Chassis                  | Plastic                                                                        |                                                                     | Aluminium                                       |                                                |                                                |                                                 |
| Dimensions (L × W × D)                | 100 × 32 × 100.6 mm<br>(3.94" × 1.26" × 3.96")                                 | 120.6 × 32 × 113 mm<br>(4.75" × 1.26" × 4.45")                      | 121 × 32 × 120 mm<br>(4.76" × 1.26" × 4.72")    | 121 × 50 × 118.7 mm<br>(4.76" × 1.97" × 4.67") | 121 × 85 × 118.5 mm<br>(4.76" × 3.35" × 4.67") | 121 × 160 × 118.5 mm<br>(4.76" × 6.30" × 4.67") |
| Unit Weight                           | 0.22 kg (0.49 lb)                                                              | 0.33 kg (0.73 lb)                                                   | 0.37 kg (0.82 lb)                               | 0.54 kg (1.19 lb)                              | 1.04 kg (2.29 lb)                              | 1.80 kg (3.97 lb)                               |
| Cooling System                        | Convection                                                                     |                                                                     |                                                 |                                                |                                                |                                                 |
| MTBF <sup>3)</sup>                    | > 500,000 hrs                                                                  | > 500,000 hrs                                                       | > 500,000 hrs                                   | > 500,000 hrs                                  | > 300,000 hrs                                  | > 300,000 hrs                                   |
| ENVIRONMENT                           |                                                                                |                                                                     |                                                 |                                                |                                                |                                                 |
| Operating Temperature                 | -20°C to +70°C                                                                 | -20°C to +80°C                                                      |                                                 |                                                |                                                |                                                 |
| Storage Temperature                   | -25°C to +85°C                                                                 |                                                                     |                                                 |                                                |                                                |                                                 |
| Power De-rating                       | < -10°C to -20°C (1% / °C),<br>< 0°C to -10°C (2% / °C),<br>> 50°C (2.5% / °C) | -20°C to -10°C: 80% Load,<br>< 0°C (2% / °C),<br>> 50°C (2.5% / °C) | < 0°C to -20°C (1% / °C),<br>> 50°C (2.5% / °C) | > 50°C (2.5% / °C)                             | > 50°C (2.5% / °C),<br>> 70°C (4% / °C)        | > 50°C (2.5% / °C)                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                   |                                                                     |                                                 |                                                |                                                |                                                 |
| Operating Altitude                    | 0 to 2,000 m (0 to 6,560 ft)                                                   |                                                                     |                                                 |                                                |                                                |                                                 |

### Dimensions Reference



### Notes

- 1) All models are certified for DC input except DRP-24V48W1AZ which still fulfills the test conditions of this range. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# CliQ II DIN Rail Power Supply

## 24V Output



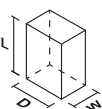
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- High Efficiency > 90.0% @ 230Vac
- Power Boost of 150% for 5 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRP024V060W1B□                                      | DRP024V120W1B□                                 | DRP024V240W1B□                                 | DRP024V480W1B□                                  |
|---------------------------------------|-----------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| Output Voltage                        | 24V                                                 | 24V                                            | 24V                                            | 24V                                             |
| Output Voltage Range                  | 24-28V                                              | 24-28V                                         | 24-28V                                         | 24-28V                                          |
| Output Current                        | 0-2.5A                                              | 0-5.0A                                         | 0-10.0A                                        | 0-20.0A                                         |
| Output Power                          | 60W                                                 | 120W                                           | 240W                                           | 480W                                            |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          |                                                |                                                |                                                 |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        |                                                |                                                |                                                 |
| PARD (20MHz)                          | < 150mVpp                                           |                                                |                                                |                                                 |
| Hold-up Time                          | > 20ms @ 115Vac,<br>> 125ms @ 230Vac                | > 20ms @ 115Vac,<br>> 115ms @ 230Vac           | > 20ms @ 115Vac & 230Vac                       |                                                 |
| INPUT                                 |                                                     |                                                |                                                |                                                 |
| Phase Input                           | Single Phase                                        |                                                |                                                |                                                 |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup> |                                                |                                                |                                                 |
| Input Frequency                       | 47-63Hz                                             |                                                |                                                |                                                 |
| Input Current                         | < 1.4A @ 115Vac,<br>< 0.8A @ 230Vac                 | < 2.2A @ 115Vac,<br>< 1.1A @ 230Vac            | < 2.5A @ 115Vac,<br>< 1.3A @ 230Vac            | < 5.0A @ 115Vac,<br>< 3.0A @ 230Vac             |
| Efficiency <sup>2)</sup> at 100% Load | > 90.0% @ 115Vac & 230Vac                           | > 89.0% @ 115Vac,<br>> 90.0% @ 230Vac          | > 90.0% @ 115Vac,<br>> 92.0% @ 230Vac          | > 91.0% @ 115Vac,<br>> 92.0% @ 230Vac           |
| Max Inrush Current (Cold Start)       | < 20A @ 115Vac,<br>< 35A @ 230Vac                   | < 35A @ 115Vac & 230Vac                        |                                                |                                                 |
| Power Factor                          | Conform to EN 61000-3-2                             |                                                | > 0.96 @ 115Vac,<br>> 0.90 @ 230Vac            | > 0.96 @ 115Vac,<br>> 0.95 @ 230Vac             |
| Leakage Current                       | < 1mA @ 240Vac                                      |                                                |                                                | < 3mA @ 240Vac                                  |
| MECHANICAL                            |                                                     |                                                |                                                |                                                 |
| Case Cover / Chassis                  | Aluminium                                           |                                                |                                                |                                                 |
| Dimensions (L × W × D)                | 121 × 32 × 125 mm<br>(4.76" × 1.26" × 4.92")        | 121 × 50 × 123.1 mm<br>(4.76" × 1.97" × 4.85") | 121 × 85 × 124.1 mm<br>(4.76" × 3.35" × 4.89") | 121 × 144 × 118.6 mm<br>(4.76" × 5.67" × 4.67") |
| Unit Weight                           | 0.37 kg (0.82 lb)                                   | 0.72 kg (1.59 lb)                              | 1.10 kg (2.43 lb)                              | 1.37 kg (3.02 lb)                               |
| Cooling System                        | Convection                                          |                                                |                                                |                                                 |
| MTBF <sup>3)</sup>                    | > 800,000 hrs                                       | > 800,000 hrs                                  | > 500,000 hrs                                  | > 500,000 hrs                                   |
| ENVIRONMENT                           |                                                     |                                                |                                                |                                                 |
| Operating Temperature                 | -25°C to +80°C                                      |                                                |                                                | -25°C to +75°C                                  |
| Storage Temperature                   | -40°C to +85°C                                      |                                                |                                                |                                                 |
| Power De-rating                       | > 50°C (2.5% / °C)                                  |                                                |                                                | > 50°C (2.5% / °C),<br>> 70°C (5% / °C)         |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                                |                                                |                                                 |
| Operating Altitude                    | 0 to 2,500 m (0 to 8,200 ft)                        |                                                |                                                |                                                 |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V060W1B□ is also certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V Output NEC Class 2



AR



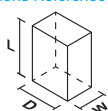
## HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- UL 1310 safety approval
- NEC Class 2 and Limited Power Source (LPS) approvals
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (DRP024V060W1NY)

## GENERAL SPECIFICATIONS

| OUTPUT                                | DRP024V060W1N□                                                                                                                   | DRP-24V100W1NN                               |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Output Voltage                        | 24V                                                                                                                              | 24V                                          |
| Output Voltage Range                  | 24-28V                                                                                                                           | 22-24V                                       |
| Output Current                        | 0-2.5A                                                                                                                           | 0-3.8A                                       |
| Output Power                          | 60W                                                                                                                              | 91.2W                                        |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)                                                                                       |                                              |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load); <u>DRP-24V100W1NN</u> : < 1.0% typ. (-25°C to +25°C), < 2.0% typ. (+25°C to +50°C) |                                              |
| PARD (20MHz)                          | < 240mVpp                                                                                                                        | < 150mVpp                                    |
| Hold-up Time                          | > 20ms @ 115Vac,<br>> 125ms @ 230Vac                                                                                             | > 20ms @ 115Vac,<br>> 30ms @ 230Vac          |
| INPUT                                 |                                                                                                                                  |                                              |
| Phase Input                           | Single Phase                                                                                                                     |                                              |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>                                                                              |                                              |
| Input Frequency                       | 47-63Hz                                                                                                                          |                                              |
| Input Current                         | < 1.50A @ 115Vac,<br>< 0.80A @ 230Vac                                                                                            | < 1.00A @ 115Vac,<br>< 0.53A @ 230Vac        |
| Efficiency <sup>2)</sup> at 100% Load | > 88.0% @ 115Vac, > 89.0% @ 230Vac                                                                                               |                                              |
| Max Inrush Current (Cold Start)       | < 40A @ 115Vac,<br>< 80A @ 230Vac                                                                                                | < 30A @ 115Vac,<br>< 60A @ 230Vac            |
| Power Factor                          | Conform to EN 61000-3-2                                                                                                          | > 0.99 @ 115Vac,<br>> 0.94 @ 230Vac          |
| Leakage Current                       | < 0.5mA @ 240Vac                                                                                                                 |                                              |
| MECHANICAL                            |                                                                                                                                  |                                              |
| Case Cover / Chassis                  | Plastic                                                                                                                          | Aluminium                                    |
| Dimensions (L × W × D)                | 120.6 × 32 × 119.3 mm<br>(4.75" × 1.26" × 4.70")                                                                                 | 124 × 40 × 124 mm<br>(4.88" × 1.57" × 4.88") |
| Unit Weight                           | 0.33 kg (0.73 lb)                                                                                                                | 0.60 kg (1.32 lb)                            |
| Cooling System                        | Convection                                                                                                                       |                                              |
| MTBF <sup>3)</sup>                    | > 800,000 hrs                                                                                                                    | > 800,000 hrs                                |
| ENVIRONMENT                           |                                                                                                                                  |                                              |
| Operating Temperature                 | -25°C to +80°C                                                                                                                   |                                              |
| Storage Temperature                   | -40°C to +85°C                                                                                                                   |                                              |
| Power De-rating                       | > 50°C (2.5% / °C), > 70°C (4% / °C)                                                                                             |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                                                                     |                                              |
| Operating Altitude                    | 0 to 2,500 m (0 to 8,200 ft)                                                                                                     |                                              |

### Dimensions Reference



### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ II DIN Rail Power Supply

## 24V Output



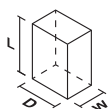
### HIGHLIGHTS & FEATURES

- Designed for single phase input 180-305Vac (for L-N) or 2 of 3-Phase system 2 x 180-550Vac (for L-L) or 254-780Vdc
- Compact and corrosion resistant aluminium casing
- High Efficiency > 90.0%
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Wide operating temperature range from -30°C to +70°C
- Built-in DC OK contact
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRP-24V120W2BN                                                                                         | DRP-24V240W2BN                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Output Voltage                        | 24V                                                                                                    | 24V                                           |
| Output Voltage Range                  | 24-28V                                                                                                 | 24-28V                                        |
| Output Current                        | 0-5.0A                                                                                                 | 0-10.0A                                       |
| Output Power                          | 120W                                                                                                   | 240W                                          |
| Line Regulation                       | < 0.5% typ. (@ 200-550Vac input, 100% load)                                                            |                                               |
| Load Regulation                       | < 1.0% typ. (@ 200-550Vac input, 0-100% load)                                                          |                                               |
| PARD (20MHz)                          | < 150mVpp                                                                                              |                                               |
| Hold-up Time                          | > 10ms @ 2 × 230Vac,<br>> 50ms @ 2 × 400Vac                                                            | > 18ms @ 2 × 230Vac,<br>> 30ms @ 2 × 400Vac   |
| INPUT                                 |                                                                                                        |                                               |
| Phase Input                           | Single Phase or Two Phase                                                                              |                                               |
| Input Voltage Range                   | 2 × 180-550Vac or 180-305Vac (Single Phase)<br>(DC input range 254-780Vdc) <sup>1)</sup>               |                                               |
| Input Frequency                       | 47-63Hz                                                                                                |                                               |
| Input Current                         | < 1.20A @ 2 × 230Vac,<br>< 0.65A @ 2 × 400Vac                                                          | < 2.00A @ 2 × 230Vac,<br>< 1.00A @ 2 × 400Vac |
| Efficiency <sup>2)</sup> at 100% Load | > 90.0% @ 2 × 400Vac                                                                                   |                                               |
| Max Inrush Current<br>(Cold Start)    | < 50A @ 2 × 200Vac & 500Vac                                                                            |                                               |
| Power Factor                          | Conform to EN 61000-3-2                                                                                | > 0.84 @ 2 × 230Vac & 400Vac                  |
| Leakage Current                       | < 3.5mA @ 500Vac                                                                                       |                                               |
| MECHANICAL                            |                                                                                                        |                                               |
| Case Cover / Chassis                  | Aluminium                                                                                              |                                               |
| Dimensions (L × W × D)                | 124 × 40 × 117 mm<br>(4.88" × 1.57" × 4.61")                                                           | 124 × 60 × 117 mm<br>(4.88" × 2.36" × 4.61")  |
| Unit Weight                           | 0.62 kg (1.37 lb)                                                                                      | 0.81 kg (1.79 lb)                             |
| Cooling System                        | Convection                                                                                             |                                               |
| MTBF <sup>3)</sup>                    | > 800,000 hrs                                                                                          | > 500,000 hrs                                 |
| ENVIRONMENT                           |                                                                                                        |                                               |
| Operating Temperature                 | -30°C to +70°C                                                                                         |                                               |
| Storage Temperature                   | -40°C to +85°C                                                                                         |                                               |
| Power De-rating                       | > 60°C (4% / °C)                                                                                       | > 50°C (2.25% / °C)                           |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                                           |                                               |
| Operating Altitude                    | Industrial Application: 0 to 2,000 m (0 to 6,560 ft);<br>ITE Application: 0 to 2,500 m (0 to 8,200 ft) |                                               |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V Output



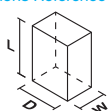
## HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 5 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (except DRP024V960W3BN)

## GENERAL SPECIFICATIONS

| OUTPUT                                           | DRP024V060W3B□                                                                                         | DRP024V120W3B□                                    | DRP024V240W3B□                                    | DRP024V480W3B□                                    | DRP024V960W3BN                                                                   |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------|
| Output Voltage                                   | 24V                                                                                                    | 24V                                               | 24V                                               | 24V                                               | 24V                                                                              |
| Output Voltage Range                             | 24-28V                                                                                                 | 24-28V                                            | 24-28V                                            | 24-28V                                            | 24-28V                                                                           |
| Output Current                                   | 0-2.5A                                                                                                 | 0-5.0A                                            | 0-10.0A                                           | 0-20.0A                                           | 0-40.0A                                                                          |
| Output Power                                     | 60W                                                                                                    | 120W                                              | 240W                                              | 480W                                              | 960W                                                                             |
| Line Regulation                                  | < 0.5% typ. (@ 320-600Vac input, 100% load)                                                            |                                                   |                                                   |                                                   |                                                                                  |
| Load Regulation                                  | < 1.0% typ. (@ 320-600Vac input, 0-100% load)                                                          |                                                   |                                                   |                                                   |                                                                                  |
| PARD (20MHz)                                     | < 150mVpp                                                                                              |                                                   |                                                   |                                                   | < 240mVpp                                                                        |
| Hold-up Time                                     | > 20ms @ 3 × 400Vac, > 40ms @ 3 × 500Vac                                                               |                                                   |                                                   | > 20ms @ 3 × 400Vac & 500Vac                      |                                                                                  |
| INPUT                                            |                                                                                                        |                                                   |                                                   |                                                   |                                                                                  |
| Phase Input                                      | Two Phase or Three Phase                                                                               |                                                   |                                                   |                                                   |                                                                                  |
| Input Voltage Range<br>(Does not exceed 600Vac)  | 3 × 320-600Vac or 2 × 360-600Vac (DC input range 450-800Vdc) <sup>1)</sup>                             |                                                   |                                                   |                                                   | 3 × 320-600Vac or<br>2 × 380-600Vac (DC input<br>range 450-800Vdc) <sup>1)</sup> |
| Input Frequency                                  | 47-63Hz                                                                                                |                                                   |                                                   |                                                   |                                                                                  |
| Input Current                                    | < 0.30A/Phase @ 400Vac,<br>< 0.25A/Phase @ 500Vac                                                      | < 0.50A/Phase @ 400Vac,<br>< 0.40A/Phase @ 500Vac | < 0.75A/Phase @ 400Vac,<br>< 0.65A/Phase @ 500Vac | < 1.00A/Phase @ 400Vac,<br>< 0.75A/Phase @ 500Vac | < 1.70A/Phase @ 400Vac,<br>< 1.40A/Phase @ 500Vac                                |
| Efficiency <sup>2)</sup> at 100% Load            | > 86.0% @ 3 × 400Vac<br>& 500Vac                                                                       | > 88.0% @ 3 × 400Vac<br>& 500Vac                  | > 92.0% @ 3 × 400Vac<br>& 500Vac                  | > 91.0% @ 3 × 400Vac<br>& 500Vac                  | > 92.0% @ 3 × 400Vac<br>& 500Vac                                                 |
| Max Inrush Current<br>(Cold Start) <sup>3)</sup> | < 30A @ 3 × 400Vac &<br>500Vac                                                                         | < 30A @ 3 × 400Vac &<br>500Vac                    | < 40A @ 3 × 400Vac &<br>500Vac                    | < 50A @ 3 × 400Vac &<br>500Vac                    | < 60A @ 3 × 400Vac &<br>500Vac                                                   |
| Power Factor                                     | Conform to EN 61000-3-2                                                                                |                                                   |                                                   | > 0.95 @ 3 × 400Vac, > 0.94 @ 3 × 500Vac          |                                                                                  |
| Leakage Current                                  | < 3.5mA @ 500Vac                                                                                       |                                                   |                                                   |                                                   |                                                                                  |
| MECHANICAL                                       |                                                                                                        |                                                   |                                                   |                                                   |                                                                                  |
| Case Cover / Chassis                             | Aluminium                                                                                              |                                                   |                                                   |                                                   |                                                                                  |
| Dimensions (L × W × D)                           | 121 × 50 × 117.3 mm<br>(4.76" × 1.97" × 4.62")                                                         | 121 × 50 × 117.3 mm<br>(4.76" × 1.97" × 4.62")    | 121 × 70 × 117.3 mm<br>(4.76" × 2.76" × 4.62")    | 121 × 140 × 117.3 mm<br>(4.76" × 5.51" × 4.62")   | 121 × 255 × 117.3 mm<br>(4.76" × 10.0" × 4.62")                                  |
| Unit Weight                                      | 0.66 kg (1.46 lb)                                                                                      | 0.66 kg (1.46 lb)                                 | 0.89 kg (1.96 lb)                                 | 1.35 kg (2.98 lb)                                 | 2.60 kg (5.73 lb)                                                                |
| Cooling System                                   | Convection                                                                                             |                                                   |                                                   |                                                   |                                                                                  |
| MTBF <sup>4)</sup>                               | > 500,000 hrs                                                                                          | > 500,000 hrs                                     | > 500,000 hrs                                     | > 500,000 hrs                                     | > 300,000 hrs                                                                    |
| ENVIRONMENT                                      |                                                                                                        |                                                   |                                                   |                                                   |                                                                                  |
| Operating Temperature                            | -25°C to +80°C                                                                                         |                                                   |                                                   |                                                   | -25°C to +65°C                                                                   |
| Storage Temperature                              | -40°C to +85°C                                                                                         |                                                   |                                                   |                                                   |                                                                                  |
| Power De-rating                                  | > 50°C (2.5% / °C), > 70°C (5% / °C)                                                                   |                                                   |                                                   |                                                   | > 50°C (2.5% / °C)                                                               |
| Operating Humidity                               | 5 to 95% RH (Non-Condensing)                                                                           |                                                   |                                                   |                                                   |                                                                                  |
| Operating Altitude                               | Industrial Application: 0 to 2,000 m (0 to 6,560 ft);<br>ITE Application: 0 to 2,500 m (0 to 8,200 ft) |                                                   |                                                   |                                                   |                                                                                  |

### Dimensions Reference



### Notes

- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V480W3B□ and DRP024V960W3BN are also certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) AC Source capability up to 3kVA.
- 4) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 400Vac, O/P: 100% load) for vertical mounting orientation.
- 5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ II DIN Rail Power Supply

## 48V Output



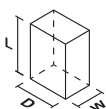
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- High Efficiency > 91.0% @ 230Vac
- Power Boost of 150% for 5 seconds
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRP048V060W1B□                                      | DRP048V120W1B□                                 | DRP048V240W1B□                                 | DRP048V480W1B□                                  |
|---------------------------------------|-----------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| Output Voltage                        | 48V                                                 | 48V                                            | 48V                                            | 48V                                             |
| Output Voltage Range                  | 48-56V                                              | 48-56V                                         | 48-56V                                         | 48-56V                                          |
| Output Current                        | 0-1.25A                                             | 0-2.5A                                         | 0-5.0A                                         | 0-10.0A                                         |
| Output Power                          | 60W                                                 | 120W                                           | 240W                                           | 480W                                            |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          |                                                |                                                |                                                 |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        |                                                |                                                |                                                 |
| PARD (20MHz)                          | < 200mVpp                                           |                                                |                                                |                                                 |
| Hold-up Time                          | > 20ms @ 115Vac,<br>> 125ms @ 230Vac                | > 20ms @ 115Vac,<br>> 50ms @ 230Vac            | > 20ms @ 115Vac & 230Vac                       |                                                 |
| INPUT                                 |                                                     |                                                |                                                |                                                 |
| Phase Input                           | Single Phase                                        |                                                |                                                |                                                 |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup> |                                                |                                                |                                                 |
| Input Frequency                       | 47-63Hz                                             |                                                |                                                |                                                 |
| Input Current                         | < 1.4A @ 115Vac,<br>< 0.8A @ 230Vac                 | < 2.2A @ 115Vac,<br>< 1.1A @ 230Vac            | < 2.5A @ 115Vac,<br>< 1.3A @ 230Vac            | < 5.0A @ 115Vac,<br>< 3.0A @ 230Vac             |
| Efficiency <sup>2)</sup> at 100% Load | > 91.0% @ 115Vac,<br>> 92.0% @ 230Vac               | > 90.0% @ 115Vac,<br>> 91.0% @ 230Vac          | > 90.0% @ 115Vac,<br>> 92.0% @ 230Vac          | > 91.0% @ 115Vac,<br>> 93.0% @ 230Vac           |
| Max Inrush Current (Cold Start)       | < 20A @ 115Vac,<br>< 35A @ 230Vac                   | < 35A @ 115Vac & 230Vac                        |                                                |                                                 |
| Power Factor                          | Conform to EN 61000-3-2                             | > 0.99 @ 115Vac,<br>> 0.93 @ 230Vac            | > 0.96 @ 115Vac, > 0.90 @ 230Vac               |                                                 |
| Leakage Current                       | < 1mA @ 240Vac                                      |                                                |                                                | < 3mA @ 240Vac                                  |
| MECHANICAL                            |                                                     |                                                |                                                |                                                 |
| Case Cover / Chassis                  | Aluminium                                           |                                                |                                                |                                                 |
| Dimensions (L × W × D)                | 121 × 32 × 125 mm<br>(4.76" × 1.26" × 4.92")        | 121 × 50 × 123.1 mm<br>(4.76" × 1.97" × 4.85") | 121 × 85 × 124.1 mm<br>(4.76" × 3.35" × 4.86") | 121 × 144 × 118.6 mm<br>(4.76" × 5.67" × 4.67") |
| Unit Weight                           | 0.38 kg (0.84 lb)                                   | 0.72 kg (1.59 lb)                              | 0.96 kg (2.12 lb)                              | 1.37 kg (3.02 lb)                               |
| Cooling System                        | Convection                                          |                                                |                                                |                                                 |
| MTBF <sup>3)</sup>                    | > 800,000 hrs                                       | > 800,000 hrs                                  | > 500,000 hrs                                  | > 500,000 hrs                                   |
| ENVIRONMENT                           |                                                     |                                                |                                                |                                                 |
| Operating Temperature                 | -25°C to +80°C                                      |                                                |                                                | -25°C to +75°C                                  |
| Storage Temperature                   | -40°C to +85°C                                      |                                                |                                                |                                                 |
| Power De-rating                       | > 50°C (2.5% / °C)                                  |                                                |                                                | > 50°C (2.5% / °C),<br>> 70°C (5% / °C)         |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                                |                                                |                                                 |
| Operating Altitude                    | 0 to 2,500 m (0 to 8,200 ft)                        |                                                |                                                |                                                 |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# CliQ III DIN Rail Power Supply

## 24V Output



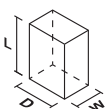
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Built-in constant current circuit for charging application
- High efficiency of up to 94% at 230Vac
- Power Boost of 150% for 5 seconds
- SEMI F47 compliance at 120Vac
- Extreme low temperature cold start at -40°C
- Built-in DC OK Contact and LED indicator for DC OK
- Conformal coating on PCBA to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

|                                       | NEW                                                                                           | NEW                                          | NEW                                                           |
|---------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------|
| OUTPUT                                | DRP-24V120W1C□N                                                                               | DRP-24V240W1C□N                              | DRP-24V480W1C□N                                               |
| Output Voltage                        | 24V                                                                                           | 24V                                          | 24V                                                           |
| Output Voltage Range                  | 24-28V                                                                                        | 24-28V                                       | 24-28V                                                        |
| Output Current                        | 0-5.0A                                                                                        | 0-10.0A                                      | 0-20.0A                                                       |
| Output Power                          | 120W                                                                                          | 240W                                         | 480W                                                          |
| Line Regulation                       | < 0.5% (@ 88-264Vac input, 100% load)                                                         |                                              |                                                               |
| Load Regulation                       | < 1.0% (@ 88-264Vac input, 0-100% load)                                                       |                                              |                                                               |
| PARD (20MHz)                          | < 100mVpp                                                                                     |                                              |                                                               |
| Hold-up Time                          | > 20ms @115Vac & 230Vac                                                                       |                                              | > 16ms @115Vac & 230Vac                                       |
| INPUT                                 |                                                                                               |                                              |                                                               |
| Phase Input                           | Single Phase                                                                                  |                                              |                                                               |
| Input Voltage Range                   | DRP-24V□W1CAN: 88-264Vac<br>DRP-24V□W1CBN: 88-264Vac (DC input range 88-375Vdc) <sup>1)</sup> |                                              |                                                               |
| Input Frequency                       | 47-63Hz                                                                                       |                                              |                                                               |
| Input Current                         | < 1.4A @ 115Vac, < 0.7A @ 230Vac                                                              | < 2.6A @ 115Vac, < 1.3A @ 230Vac             | < 5.0A @ 115Vac, < 2.5A @ 230Vac                              |
| Efficiency <sup>2)</sup> at 100% Load | > 89.9% @115Vac, > 91.4% @ 230Vac                                                             | > 92.7% @115Vac, > 94.4% @ 230Vac            | > 92.5% @115Vac, > 94.0% @ 230Vac                             |
| Max Inrush Current (Cold Start)       | < 35A @ 115Vac, < 75A @ 230Vac                                                                | < 33A @ 115Vac, < 65A @ 230Vac               | < 40A @ 115Vac, < 80A @ 230Vac                                |
| Power Factor                          | > 0.96 @ 115Vac, > 0.93 @ 230Vac                                                              | > 0.99 @ 115Vac, > 0.93 @ 230Vac             | > 0.99 @ 115Vac, > 0.95 @ 230Vac                              |
| Leakage Current                       | < 1.2mA @240Vac                                                                               |                                              |                                                               |
| MECHANICAL                            |                                                                                               |                                              |                                                               |
| Case Cover / Chassis                  | Aluminium                                                                                     |                                              |                                                               |
| Dimensions (L × W × D)                | 124 × 40 × 117 mm<br>(4.88" × 1.57" × 4.60")                                                  | 124 × 60 × 117 mm<br>(4.88" × 2.36" × 4.60") | 124 × 82 × 127 mm<br>(4.88" × 3.23" × 5.00")                  |
| Unit Weight                           | 0.58 kg (1.28 lb)                                                                             | 0.84 kg (1.85 lb)                            | 1.20 kg (2.65 lb)                                             |
| Cooling System                        | Convection                                                                                    |                                              |                                                               |
| MTBF <sup>3)</sup>                    | > 1,411,300 hrs                                                                               | > 1,366,200 hrs                              | > 1,041,600 hrs                                               |
| ENVIRONMENT                           |                                                                                               |                                              |                                                               |
| Operating Temperature                 | -25°C to +70°C                                                                                |                                              |                                                               |
| Storage Temperature                   | -40°C to +85°C                                                                                |                                              |                                                               |
| Power De-rating                       | > 60°C (2.5% / °C)                                                                            |                                              | AC input: > 60°C (2.5% / °C),<br>DC input: > 50°C (2.5% / °C) |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                                  |                                              |                                                               |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                                                                 |                                              |                                                               |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ M DIN Rail Power Supply

## 24V Output



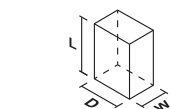
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- High power density in corrosion resistant aluminium casing
- Power Boost of 150% up to 7 seconds
- Advanced Power Boost (APB)
- DNV GL and ABS approvals for maritime applications
- Extreme low temperature cold start at -40°C
- Built-in DC OK contact and LED indicator for DC OK/ Over Load
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

| OUTPUT                                |       | DRM-24V80W1PN                                                                                                                                     | DRM-24V120W1PN                                     | DRM-24V240W1PN                                     | DRM-24V480W1PN                            | DRM-24V960W1PN                               |
|---------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|-------------------------------------------|----------------------------------------------|
| Output Voltage                        |       | 24V                                                                                                                                               | 24V                                                | 24V                                                | 24V                                       | 24V                                          |
| Output Voltage Range                  |       | 24-28V                                                                                                                                            | 24-28V                                             | 24-28V                                             | 24-28V                                    | 24-28V                                       |
| Output Current                        |       | 3.4-3.0A                                                                                                                                          | 5.0-4.5A                                           | 10.0-9.0A                                          | 20.0-17.0A                                | 40.0-34.3A                                   |
| Output Power                          |       | 81.6W                                                                                                                                             | 120W                                               | 240W                                               | 480W                                      | 960W                                         |
| Line Regulation                       |       | 10mV (@ 85-264Vac input, 100% load)                                                                                                               | 20mV (@ 85-264Vac input, 100% load)                | 10mV (@ 85-276Vac input, 100% load)                |                                           | 10mV (@ 85-300Vac input, 100% load)          |
| Load Regulation                       |       | 100mV (@ 85-276Vac input, 0-100% load); <u>120W</u> : 100mV (@ 85-264Vac input, 0-100% load); <u>960W</u> : 50mV (@ 85-264Vac input, 0-100% load) |                                                    |                                                    |                                           |                                              |
| PARD (20MHz)                          |       | < 50mVpp                                                                                                                                          |                                                    |                                                    | < 100mVpp                                 |                                              |
| Hold-up Time                          |       | > 41ms @ 120Vac, > 70ms @ 230Vac                                                                                                                  | > 34ms @ 120Vac, > 65ms @ 230Vac                   | > 28ms @ 120Vac & 230Vac                           | > 30ms @ 120Vac & 230Vac                  | > 23ms @ 120vac & 230Vac                     |
| INPUT                                 |       |                                                                                                                                                   |                                                    |                                                    |                                           |                                              |
| Phase Input                           |       | Single Phase                                                                                                                                      |                                                    |                                                    |                                           |                                              |
| Input Voltage Range                   |       | 85-276Vac (DC input range 88-375Vdc) <sup>1)</sup>                                                                                                | 85-264Vac (DC input range 88-375Vdc) <sup>1)</sup> | 85-276Vac (DC input range 88-375Vdc) <sup>1)</sup> |                                           | 85-264Vac                                    |
| Input Frequency                       |       | 47-63Hz                                                                                                                                           |                                                    |                                                    |                                           |                                              |
| Input Current                         |       | < 0.90A @ 120Vac, < 0.60A @ 230Vac                                                                                                                | < 1.12A @ 120Vac, < 0.62A @ 230Vac                 | < 2.26A @ 120Vac, < 1.25A @ 230Vac                 | < 4.60A @ 120Vac, < 2.50A @ 230Vac        | < 10.10A @ 120Vac, < 6.00A @ 230Vac          |
| Efficiency <sup>2)</sup> at 100% Load |       | > 90.1% @ 120Vac, > 90.0% @ 230Vac                                                                                                                | > 91.6% @ 120Vac, > 92.7% @ 230Vac                 | > 92.6% @ 120Vac, > 93.5% @ 230Vac                 | > 92.2% @ 120Vac, > 93.4% @ 230Vac        | > 93.6% @ 120Vac, > 94.6% @ 230Vac           |
| Max Inrush Current (Cold Start)       |       | < 7A @ 120Vac, < 13A @ 230Vac                                                                                                                     | < 15A @ 120Vac & 230Vac                            | < 10A @ 120Vac & 230Vac                            | < 13A @ 120Vac & 230Vac                   | < 13A @ 120Vac, < 20A @ 230Vac               |
| Power Factor                          |       | > 0.95 @ 120Vac, > 0.80 @ 230Vac                                                                                                                  | > 0.99 @ 120Vac, > 0.91 @ 230Vac                   | > 0.98 @ 120Vac, > 0.92 @ 230Vac                   | > 0.92 @ 120Vac, > 0.87 @ 230Vac          | > 0.97 @ 120Vac, > 0.95 @ 230Vac             |
| Leakage Current (264Vac, 50Hz)        | TT/TN | < 0.36mA                                                                                                                                          | < 0.45mA                                           | < 0.74mA                                           | < 0.80mA                                  | < 1.18mA                                     |
|                                       | IT    | < 0.95mA                                                                                                                                          | < 1.08mA                                           | < 1.29mA                                           | < 2.00mA                                  | < 2.82mA                                     |
| MECHANICAL                            |       |                                                                                                                                                   |                                                    |                                                    |                                           |                                              |
| Case Cover / Chassis                  |       | Aluminium                                                                                                                                         |                                                    |                                                    |                                           |                                              |
| Dimensions (L × W × D)                |       | 124 × 32 × 102 mm (4.88" × 1.26" × 4.02")                                                                                                         | 124 × 40 × 117 mm (4.88" × 1.57" × 4.61")          | 124 × 60 × 117 mm (4.88" × 2.36" × 4.61")          | 124 × 82 × 127 mm (4.88" × 3.23" × 5.00") | 124 × 125 × 133.6 mm (4.88" × 4.92" × 5.26") |
| Unit Weight                           |       | 0.50 kg (1.10 lb)                                                                                                                                 | 0.63 kg (1.39 lb)                                  | 0.94 kg (2.07 lb)                                  | 1.40 kg (3.09 lb)                         | 2.87 kg (6.33 lb)                            |
| Cooling System                        |       | Convection                                                                                                                                        |                                                    |                                                    |                                           |                                              |
| MTBF <sup>3)</sup>                    |       | > 2,000,000 hrs                                                                                                                                   | > 1,800,000 hrs                                    | > 1,400,000 hrs                                    | > 778,800 hrs                             | > 513,800 hrs                                |
| ENVIRONMENT                           |       |                                                                                                                                                   |                                                    |                                                    |                                           |                                              |
| Operating Temperature                 |       | -25°C to +70°C                                                                                                                                    |                                                    |                                                    |                                           |                                              |
| Storage Temperature                   |       | -40°C to +85°C                                                                                                                                    |                                                    |                                                    |                                           |                                              |
| Power De-rating                       |       | > 60°C (2.5% / °C)                                                                                                                                |                                                    |                                                    |                                           |                                              |
| Operating Humidity                    |       | 5 to 95% RH (Non-Condensing)                                                                                                                      |                                                    |                                                    |                                           |                                              |
| Operating Altitude                    |       | 0 to 5,000 m (0 to 16,400 ft); IEC/EN 61558: 0 to 2,500 m (0 to 8,200 ft)                                                                         |                                                    |                                                    |                                           |                                              |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input. DC input is not applicable for DRM-24V960W1PN.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ VA DIN Rail Power Supply

## 24V Output



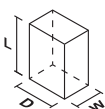
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- LCD display monitoring the output current / voltage / peak current and temperature
- Life time expectancy alarm signal and monitoring
- Built-in active PFC with up to 94% efficiency
- Power Boost of 150% up to 7 seconds
- Advanced Power Boost (APB)
- DC OK Contact and LED indicator for DC OK/ Overload
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

|                                       | NEW                                                | NEW                                                | NEW                                          |
|---------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------|
| OUTPUT                                | DRV-24V120W1PN                                     | DRV-24V240W1PN                                     | DRV-24V480W1PN                               |
| Output Voltage                        | 24V                                                | 24V                                                | 24V                                          |
| Output Voltage Range                  | 24-28V                                             | 24-28V                                             | 24-28V                                       |
| Output Current                        | 5.0-4.28A                                          | 10.0-8.57A                                         | 20.0-17.0A                                   |
| Output Power                          | 120W                                               | 240W                                               | 480W                                         |
| Line Regulation                       | 20mV (@ 85-264Vac input, 100% load)                | 10mV (@ 85-276Vac input, 100% load)                |                                              |
| Load Regulation                       | 100mV (@ 85-264Vac input, 0-100% load)             | 100mV (@ 85-276Vac input, 0-100% load)             |                                              |
| PARD (20MHz)                          | < 50mVpp                                           | < 50mVpp                                           | < 100mVpp                                    |
| Hold-up Time                          | > 34ms @120Vac,<br>> 65ms @ 230Vac                 | > 28ms @ 120Vac & 230Vac                           | > 30ms @ 120Vac & 230Vac                     |
| INPUT                                 |                                                    |                                                    |                                              |
| Phase Input                           | Single Phase                                       |                                                    |                                              |
| Input Voltage Range                   | 85-264Vac (DC input range 88-375Vdc) <sup>1)</sup> | 85-276Vac (DC input range 88-375Vdc) <sup>1)</sup> |                                              |
| Input Frequency                       | 47-63Hz                                            |                                                    |                                              |
| Input Current                         | < 1.13A @ 120Vac,<br>< 0.63A @ 230Vac              | < 2.22A @ 120Vac,<br>< 1.21A @ 230Vac              | < 4.60A @ 120Vac,<br>< 2.50A @ 230Vac        |
| Efficiency <sup>2)</sup> at 100% Load | > 90.3% @ 120Vac,<br>> 91.2% @ 230Vac              | > 92.6% @ 120Vac,<br>> 93.5% @ 230Vac              | > 92.2% @ 120Vac,<br>> 93.4% @ 230Vac        |
| Max Inrush Current (Cold Start)       | < 15A @ 120Vac & 230Vac                            | < 10A @ 120Vac & 230Vac                            | < 13A @ 120Vac & 230Vac                      |
| Power Factor                          | > 0.99 @ 120Vac,<br>> 0.91 @ 230Vac                | > 0.98 @ 120Vac,<br>> 0.92 @ 230Vac                | > 0.92 @ 120Vac,<br>> 0.87 @ 230Vac          |
| Leakage Current (264Vac, 50Hz)        | TT/TN                                              | < 0.45mA                                           | < 0.80mA                                     |
|                                       | IT                                                 | < 1.08mA                                           | < 2.00mA                                     |
| MECHANICAL                            |                                                    |                                                    |                                              |
| Case Cover / Chassis                  | Aluminium & Plastic / Aluminium                    |                                                    |                                              |
| Dimensions (L x W x D)                | 124 x 60 x 139 mm<br>(4.88" x 2.36" x 5.47")       | 124 x 60 x 139 mm<br>(4.88" x 2.36" x 5.47")       | 124 x 82 x 149 mm<br>(4.88" x 3.23" x 5.87") |
| Unit Weight                           | 0.75 kg (1.65 lb)                                  | 1.02 kg (2.25 lb)                                  | 1.45 kg (3.20 lb)                            |
| Cooling System                        | Convection                                         |                                                    |                                              |
| MTBF <sup>3)</sup>                    | > 1,400,000 hrs                                    | > 1,200,000 hrs                                    | > 700,000 hrs                                |
| ENVIRONMENT                           |                                                    |                                                    |                                              |
| Operating Temperature                 | -25°C to +70°C                                     |                                                    |                                              |
| Storage Temperature                   | -40°C to +85°C                                     |                                                    |                                              |
| Power De-rating                       | > 60°C (2.5% / °C)                                 |                                                    |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                       |                                                    |                                              |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                      |                                                    |                                              |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Lyte DIN Rail Power Supply

## 24V, 48V Output



LYTE

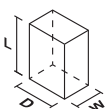
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- High power density
- Built-in constant current circuit for reactive loads
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Built-in DC OK relay contact (for DRL-□V□W1AS)
- Compliance to SEMI F47 @ 200Vac
- 15kV common mode & 8kV differential mode ESD immunity
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRL-24V120W1A□                                                                                                                                                                    | DRL-24V240W1A□                                                                       | DRL-24V480W1A□                                     | DRL-48V120W1A□                                            |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|
| Output Voltage                        | 24V                                                                                                                                                                               | 24V                                                                                  | 24V                                                | 48V                                                       |
| Output Voltage Range                  | 22-28V                                                                                                                                                                            | 22-28V                                                                               | 22-28V                                             | 44-56V                                                    |
| Output Current                        | 5.0A                                                                                                                                                                              | 10.0A                                                                                | 20.0A                                              | 2.50A                                                     |
| Output Power                          | 120W                                                                                                                                                                              | 240W                                                                                 | 480W                                               | 120W                                                      |
| Line Regulation                       | < 0.5% (@ 85-264Vac input, 100% load)                                                                                                                                             |                                                                                      |                                                    |                                                           |
| Load Regulation (0-100% Load)         | < 1.0%                                                                                                                                                                            | < 1.0% @ -10°C to +70°C<br>< 1.5% @ -20°C to -10°C                                   | < 1.5% @ -10°C to +70°C<br>< 2.0% @ -20°C to -10°C | < 1.0%                                                    |
| PARD (20MHz)                          | < 120mVpp @ -10°C to +70°C,<br>< 240mVpp @ -20°C to -10°C                                                                                                                         | < 120mVpp @ 0°C to +70°C,<br>< 240mVpp @ -10°C to 0°C,<br>< 360mVpp @ -20°C to -10°C |                                                    | < 150mVpp @ -10°C to +70°C,<br>< 300mVpp @ -20°C to -10°C |
| Hold-up Time                          | 20ms typ. @ 115Vac,<br>90ms typ. @ 230Vac                                                                                                                                         | 10ms typ. @ 115Vac, 16ms typ. @ 230Vac                                               |                                                    | 20ms typ. @ 115Vac,<br>90ms typ. @ 230Vac                 |
| INPUT                                 |                                                                                                                                                                                   |                                                                                      |                                                    |                                                           |
| Phase Input                           | Single Phase                                                                                                                                                                      |                                                                                      |                                                    |                                                           |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>                                                                                                                               |                                                                                      |                                                    |                                                           |
| Input Frequency                       | 47-63Hz                                                                                                                                                                           |                                                                                      |                                                    |                                                           |
| Input Current                         | 2.2A typ. @ 115Vac,<br>1.2A typ. @ 230Vac                                                                                                                                         | 2.8A typ. @ 115Vac,<br>1.4A typ. @ 230Vac                                            | 5.4A typ. @ 115Vac,<br>2.7A typ. @ 230Vac          | 2.2A typ. @ 115Vac,<br>1.2A typ. @ 230Vac                 |
| Efficiency <sup>2)</sup> at 100% Load | 85.0% typ. @ 115Vac,<br>88.0% typ. @ 230Vac                                                                                                                                       | 88.0% typ. @ 115Vac,<br>90.0% typ. @ 230Vac                                          | 85.0% typ. @ 115Vac,<br>88.0% typ. @ 230Vac        | 89.0% typ. @ 115Vac,<br>90.0% typ. @ 230Vac               |
| Max Inrush Current (Cold Start)       | 20A typ. @ 115Vac, 40A typ. @ 230Vac                                                                                                                                              |                                                                                      | 40A typ. @ 115Vac,<br>80A typ. @ 230Vac            | 20A typ. @ 115Vac,<br>40A typ. @ 230Vac                   |
| Power Factor                          | Conform to EN 61000-3-2                                                                                                                                                           | > 0.95 @ 115Vac & 230Vac                                                             |                                                    | Conform to EN 61000-3-2                                   |
| Leakage Current                       | < 0.25mA @ 264Vac                                                                                                                                                                 | < 1mA @ 264Vac                                                                       |                                                    | < 0.25mA @ 264Vac                                         |
| MECHANICAL                            |                                                                                                                                                                                   |                                                                                      |                                                    |                                                           |
| Case Cover / Chassis                  | SGCC / Aluminium                                                                                                                                                                  |                                                                                      |                                                    |                                                           |
| Dimensions (L × W × D)                | 123.6 × 40 × 117.6 mm<br>(4.87" × 1.57" × 4.63")                                                                                                                                  | 123.6 × 60 × 117.6 mm<br>(4.87" × 2.36" × 4.63")                                     | 123.6 × 85.5 × 128.5 mm<br>(4.87" × 3.37" × 5.06") | 123.6 × 40 × 117.6 mm<br>(4.87" × 1.57" × 4.63")          |
| Unit Weight                           | 0.54 kg (1.19 lb)                                                                                                                                                                 | 0.80 kg (1.76 lb)                                                                    | 1.30 kg (2.86 lb)                                  | 0.54 kg (1.19 lb)                                         |
| Cooling System                        | Convection                                                                                                                                                                        |                                                                                      |                                                    |                                                           |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                                                                                                                                                     | > 700,000 hrs                                                                        | > 700,000 hrs                                      | > 700,000 hrs                                             |
| ENVIRONMENT                           |                                                                                                                                                                                   |                                                                                      |                                                    |                                                           |
| Operating Temperature                 | -20°C to +70°C                                                                                                                                                                    |                                                                                      |                                                    |                                                           |
| Storage Temperature                   | -40°C to +85°C                                                                                                                                                                    |                                                                                      |                                                    |                                                           |
| Power De-rating                       | 120W: < -10°C (2% / °C) & > 40°C (1.67% / °C) @ 115Vac; < -10°C (2% / °C) & > 50°C (2.5% / °C) @ 230Vac<br>240W & 480W: > 40°C (1.67% / °C) @ 115Vac; > 50°C (2.5% / °C) @ 230Vac |                                                                                      |                                                    |                                                           |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                                                                                                                      |                                                                                      |                                                    |                                                           |
| Operating Altitude                    | Industrial Application: 0 to 2,000 m (0 to 6,560 ft)<br>ITE Application: 0 to 5,000 m (0 to 16,400 ft)                                                                            |                                                                                      |                                                    |                                                           |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Chrome DIN Rail Power Supply

## 5V, 12V Output



# CHROME

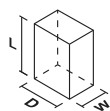
### HIGHLIGHTS & FEATURES

- Class II Double Isolation (No earth connection is required)
- Universal AC input voltage range and full power up to 55°C
- Power will not de-rate for the entire input voltage range
- Can be installed in compact cabinets
- NEC Class 2 and Limited Power Source (LPS) approvals (except DRC-12V100W1AZ)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and UL 508 (Industrial standard)

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRC-5V10W1A□                                 | DRC-12V10W1A□                                | DRC-12V30W1A□                                | DRC-12V60W1A□                                | DRC-12V100W1AZ                                 |
|---------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------|
| Output Voltage                        | 5V                                           | 12V                                          | 12V                                          | 12V                                          | 12V                                            |
| Output Voltage Range                  | 5V                                           | 12V                                          | 11.5-14.5V                                   | 11.5-14.0V                                   | 12-14V                                         |
| Output Current                        | 0-1.5A                                       | 0-0.83A                                      | 0-2.1A                                       | 0-4.5A                                       | 0-6.0A                                         |
| Output Power                          | 7.5W                                         | 10W                                          | 25.2W                                        | 54W                                          | 72W                                            |
| Line Regulation                       | < 1.0% typ. (@ 90-264Vac, 100% load)         |                                              |                                              |                                              | < 0.5% typ. (@ 90-264Vac, 100% load)           |
| Load Regulation                       | < 2.0% typ. (@ 90-264Vac, 100% load)         |                                              |                                              |                                              | < 1.0% typ. (@ 90-264Vac, 0-100% load)         |
| PARD (20MHz)                          | < 150mVpp                                    |                                              |                                              |                                              | < 100mVpp                                      |
| Hold-up Time                          | > 10ms @ 115Vac,<br>> 30ms @ 230Vac          | > 10ms @ 115Vac,<br>> 30ms @ 230Vac          | > 25ms @ 115Vac,<br>> 30ms @ 230Vac          | > 16ms @ 115Vac,<br>> 30ms @ 230Vac          | > 20ms @ 115Vac,<br>> 100ms @ 230Vac           |
| INPUT                                 |                                              |                                              |                                              |                                              |                                                |
| Phase Input                           | Single Phase                                 |                                              |                                              |                                              |                                                |
| Input Voltage Range                   | 90-264Vac                                    |                                              |                                              |                                              |                                                |
| Input Frequency                       | 47-63Hz                                      |                                              |                                              |                                              |                                                |
| Input Current                         | < 0.3A @ 115Vac,<br>< 0.2A @ 230Vac          | < 0.3A @ 115Vac,<br>< 0.2A @ 230Vac          | < 0.8A @ 115Vac,<br>< 0.6A @ 230Vac          | < 1.5A @ 115Vac,<br>< 0.8A @ 230Vac          | < 1.5A @ 115Vac,<br>< 0.9A @ 230Vac            |
| Efficiency <sup>1)</sup> at 100% Load | > 78.0% @ 115Vac,<br>> 77.0% @ 230Vac        | > 82.0% @ 115Vac &<br>230Vac                 | > 85.0% @ 115Vac &<br>230Vac                 | > 86.0% @ 115Vac & 230Vac                    |                                                |
| Max Inrush Current<br>(Cold Start)    | < 15A @ 115Vac, < 30A @ 230Vac               |                                              | < 25A @ 115Vac,<br>< 50A @ 230Vac            | < 30A @ 115Vac,<br>< 60A @ 230Vac            | < 30A @ 115Vac,<br>< 65A @ 230Vac              |
| Power Factor                          | Conform to EN 61000-3-2                      |                                              |                                              |                                              |                                                |
| Leakage Current                       | < 0.25mA @ 240Vac                            |                                              |                                              |                                              | < 0.25mA @ 264Vac                              |
| MECHANICAL                            |                                              |                                              |                                              |                                              |                                                |
| Case Cover / Chassis                  | Plastic                                      |                                              |                                              |                                              |                                                |
| Dimensions (L × W × D)                | 91 × 18 × 55.6 mm<br>(3.58" × 0.71" × 2.19") | 91 × 18 × 55.6 mm<br>(3.58" × 0.71" × 2.19") | 91 × 53 × 55.6 mm<br>(3.58" × 2.09" × 2.19") | 91 × 71 × 55.6 mm<br>(3.58" × 2.80" × 2.19") | 91 × 89.9 × 55.6 mm<br>(3.58" × 3.54" × 2.19") |
| Unit Weight                           | 0.06 kg (0.13 lb)                            | 0.06 kg (0.13 lb)                            | 0.14 kg (0.31 lb)                            | 0.22 kg (0.49 lb)                            | 0.36 kg (0.79 lb)                              |
| Cooling System                        | Convection                                   |                                              |                                              |                                              |                                                |
| MTBF <sup>2)</sup>                    | > 500,000 hrs                                | > 500,000 hrs                                | > 500,000 hrs                                | > 500,000 hrs                                | > 500,000 hrs                                  |
| ENVIRONMENT                           |                                              |                                              |                                              |                                              |                                                |
| Operating Temperature                 | -25°C to +71°C                               |                                              |                                              |                                              |                                                |
| Storage Temperature                   | -25°C to +85°C                               |                                              |                                              |                                              | -40°C to +85°C                                 |
| Power De-rating                       | > 55°C (2.5% / °C)                           |                                              |                                              |                                              |                                                |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                              |                                              |                                              |                                                |
| Operating Altitude                    | 0 to 2,000 m (0 to 6,560 ft)                 |                                              |                                              |                                              |                                                |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C) for vertical mounting orientation.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# Chrome DIN Rail Power Supply

## 24V Output



# CHROME

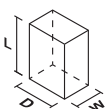
### HIGHLIGHTS & FEATURES

- Class II Double Isolation (No earth connection is required)
- Universal AC input voltage range and full power up to 55°C
- Power will not de-rate for the entire input voltage range
- Can be installed in compact cabinets
- NEC Class 2 and Limited Power Source (LPS) approvals
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and UL 508 (Industrial standard)
- Household appliance approvals IEC/EN 60335-1 (DRC-24V10W1HZ)

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRC-24V10W1A□                                | DRC-24V10W1HZ                                | DRC-24V30W1A□                                | DRC-24V60W1A□                                | DRC-24V100W1A□                                 |
|---------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------|
| Output Voltage                        | 24V                                          | 24V                                          | 24V                                          | 24V                                          | 24V                                            |
| Output Voltage Range                  | 24V                                          | 24V                                          | 23.52-24.48V                                 | 24-28V                                       | 22-24V                                         |
| Output Current                        | 0-0.42A                                      | 0-0.42A                                      | 0-1.25A                                      | 0-2.5A                                       | 0-3.8A                                         |
| Output Power                          | 10W                                          | 10W                                          | 30W                                          | 60W                                          | 91.2W                                          |
| Line Regulation                       | < 1.0% typ. (@ 90-264Vac, 100% load)         |                                              |                                              |                                              |                                                |
| Load Regulation                       | < 2.0% typ. (@ 90-264Vac, 100% load)         |                                              |                                              |                                              |                                                |
| PARD (20MHz)                          | < 150mVpp                                    |                                              |                                              |                                              |                                                |
| Hold-up Time                          | > 10ms @ 115Vac, > 30ms @ 230Vac             |                                              | > 25ms @ 115Vac,<br>> 30ms @ 230Vac          | > 16ms @ 115Vac,<br>> 30ms @ 230Vac          | > 10ms @ 115Vac,<br>> 30ms @ 230Vac            |
| INPUT                                 |                                              |                                              |                                              |                                              |                                                |
| Phase Input                           | Single Phase                                 |                                              |                                              |                                              |                                                |
| Input Voltage Range                   | 90-264Vac                                    |                                              |                                              |                                              | 90-264Vac (DC input range 125-375Vdc)          |
| Input Frequency                       | 47-63Hz                                      |                                              |                                              |                                              |                                                |
| Input Current                         | < 0.3A @ 115Vac, < 0.2A @ 230Vac             |                                              | < 0.8A @ 115Vac,<br>< 0.6A @ 230Vac          | < 1.5A @ 115Vac,<br>< 1.0A @ 230Vac          | < 2.2A @ 115Vac,<br>< 1.0A @ 230Vac            |
| Efficiency <sup>1)</sup> at 100% Load | > 80.0% @ 115Vac & 230Vac                    |                                              | > 83.0% @ 115Vac & 230Vac                    | > 86.0% @ 115Vac & 230Vac                    | > 85.0% @ 115Vac,<br>> 87.0% @ 230Vac          |
| Max Inrush Current (Cold Start)       | < 15A @ 115Vac, < 30A @ 230Vac               |                                              | < 25A @ 115Vac,<br>< 50A @ 230Vac            | < 30A @ 115Vac, < 60A @ 230Vac               |                                                |
| Power Factor                          | Conform to EN 61000-3-2                      |                                              |                                              |                                              |                                                |
| Leakage Current                       | < 0.25mA @ 240Vac                            |                                              |                                              |                                              |                                                |
| MECHANICAL                            |                                              |                                              |                                              |                                              |                                                |
| Case Cover / Chassis                  | Plastic                                      |                                              |                                              |                                              |                                                |
| Dimensions (L × W × D)                | 91 × 18 × 55.6 mm<br>(3.58" × 0.71" × 2.19") | 91 × 18 × 55.6 mm<br>(3.58" × 0.71" × 2.19") | 91 × 53 × 55.6 mm<br>(3.58" × 2.09" × 2.19") | 91 × 71 × 55.6 mm<br>(3.58" × 2.80" × 2.19") | 91 × 89.9 × 55.6 mm<br>(3.58" × 3.54" × 2.19") |
| Unit Weight                           | 0.065 kg (0.14 lb)                           | 0.065 kg (0.14 lb)                           | 0.14 kg (0.31 lb)                            | 0.22 kg (0.49 lb)                            | 0.35 kg (0.77 lb)                              |
| Cooling System                        | Convection                                   |                                              |                                              |                                              |                                                |
| MTBF <sup>2)</sup>                    | > 500,000 hrs                                | > 500,000 hrs                                | > 500,000 hrs                                | > 500,000 hrs                                | > 500,000 hrs                                  |
| ENVIRONMENT                           |                                              |                                              |                                              |                                              |                                                |
| Operating Temperature                 | -25°C to +71°C                               |                                              |                                              |                                              |                                                |
| Storage Temperature                   | -25°C to +85°C                               |                                              |                                              |                                              |                                                |
| Power De-rating                       | > 55°C (2.5% / °C)                           |                                              |                                              |                                              |                                                |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                              |                                              |                                              |                                                |
| Operating Altitude                    | 0 to 2,000 m (0 to 6,560 ft)                 |                                              |                                              |                                              |                                                |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C) for vertical mounting orientation.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Sync DIN Rail Power Supply

## 5V, 12V Output



AR

sync

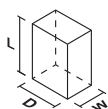
### HIGHLIGHTS & FEATURES

- Ultra-compact size and galvanic isolation up to 3.0kVac between input to output and input to ground
- Universal AC input voltage range and full power from -10°C to +55°C operation
- Up to 89.0% efficiency
- Low earth leakage current < 0.5mA @ 264Vac
- Built-in DC OK relay contact option available
- Extreme low temperature cold start at -40°C
- NEC Class 2 / Limited Power Source (LPS) certified

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRS-5V30W1NZ                                          | DRS-5V50W1A□                                          | DRS-5V50W1N□                                 | DRS-12V50W1N□                                         |
|---------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|
| Output Voltage                        | 5V                                                    | 5V                                                    | 5V                                           | 12V                                                   |
| Output Voltage Range                  | 5-5.5V                                                | 5-5.5V                                                | 5-5.5V                                       | 12-15V                                                |
| Output Current                        | 0-3.0A                                                | 0-6.0A                                                | 0-5.0A                                       | 0-4.0A                                                |
| Output Power                          | 15W                                                   | 30W                                                   | 25W                                          | 48W                                                   |
| Line Regulation                       | < 0.5% (@ 85-264Vac, 100% load)                       |                                                       |                                              |                                                       |
| Load Regulation                       | < 1.0% (@ 85-264Vac, 0-100% load)                     |                                                       |                                              |                                                       |
| PARD (20MHz)                          | < 75mVpp @ > 0°C to 70°C,<br>< 150mVpp @ 0°C to -20°C | < 50mVpp @ > 0°C to 70°C,<br>< 150mVpp @ 0°C to -20°C |                                              | < 50mVpp @ > 0°C to 70°C,<br>< 100mVpp @ 0°C to -20°C |
| Hold-up Time                          | > 20ms @ 115Vac, > 100ms @ 230Vac                     |                                                       |                                              |                                                       |
| INPUT                                 |                                                       |                                                       |                                              |                                                       |
| Phase Input                           | Single Phase                                          |                                                       |                                              |                                                       |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>   |                                                       |                                              |                                                       |
| Input Frequency                       | 47-63Hz                                               |                                                       |                                              |                                                       |
| Input Current                         | < 0.40A @ 115Vac,<br>< 0.20A @ 230Vac                 | < 0.60A @ 115Vac, < 0.40A @ 230Vac                    |                                              | < 0.90A @ 115Vac,<br>< 0.55A @ 230Vac                 |
| Efficiency <sup>2)</sup> at 100% Load | > 79.0% @ 115Vac & 230Vac                             | > 82.0% @ 115Vac & 230Vac                             |                                              | > 88.0% @ 115Vac,<br>> 89.0% @ 230Vac                 |
| Max Inrush Current (Cold Start)       | < 20A @ 115Vac,<br>< 40A @ 230Vac                     | < 35A @ 115Vac, < 65A @ 230Vac                        |                                              | < 25A @ 115Vac,<br>< 50A @ 230Vac                     |
| Power Factor                          | Conform to EN 61000-3-2                               |                                                       |                                              |                                                       |
| Leakage Current                       | < 0.5mA @ 264Vac                                      | < 0.75mA @ 264Vac                                     |                                              | < 0.5mA @ 264Vac                                      |
| MECHANICAL                            |                                                       |                                                       |                                              |                                                       |
| Case Cover / Chassis                  | Plastic                                               |                                                       |                                              |                                                       |
| Dimensions (L × W × D)                | 75 × 21 × 89.5 mm<br>(2.95" × 0.83" × 3.52")          | 75 × 30 × 89.5 mm<br>(2.95" × 1.18" × 3.52")          | 75 × 30 × 89.5 mm<br>(2.95" × 1.18" × 3.52") | 75 × 30 × 89.5 mm<br>(2.95" × 1.18" × 3.52")          |
| Unit Weight                           | 0.11 kg (0.24 lb)                                     | 0.16 kg (0.35 lb)                                     | 0.16 kg (0.35 lb)                            | 0.18 kg (0.40 lb)                                     |
| Cooling System                        | Convection                                            |                                                       |                                              |                                                       |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                         | > 700,000 hrs                                         | > 700,000 hrs                                | > 700,000 hrs                                         |
| ENVIRONMENT                           |                                                       |                                                       |                                              |                                                       |
| Operating Temperature                 | -20°C to +70°C                                        |                                                       |                                              |                                                       |
| Storage Temperature                   | -40°C to +85°C                                        |                                                       |                                              |                                                       |
| Power De-rating                       | < -10°C (2% / °C), > 55°C (3.33% / °C)                |                                                       |                                              |                                                       |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                          |                                                       |                                              |                                                       |
| Operating Altitude                    | 0 to 2,000 m (0 to 6,560 ft)                          |                                                       |                                              |                                                       |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac & 230Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Sync DIN Rail Power Supply

## 24V Output



sync

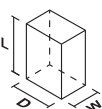
### HIGHLIGHTS & FEATURES

- Ultra-compact size and galvanic isolation up to 3.0kVac between input to output and input to ground
- Universal AC input voltage and full power from -10°C to +55°C operation
- Up to 90.0% efficiency
- Low earth leakage current < 0.5mA @ 264Vac
- Built-in DC OK relay contact option available
- Extreme low temperature cold start at -40°C
- NEC Class 2 / Limited Power Source (LPS) certified

### GENERAL SPECIFICATIONS

| OUTPUT                                | DRS-24V30W1AZ                                | DRS-24V30W1NZ                                         | DRS-24V50W1N□                                         | DRS-24V100W1A□                                     | DRS-24V100W1N□                              |
|---------------------------------------|----------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|---------------------------------------------|
| Output Voltage                        | 24V                                          | 24V                                                   | 24V                                                   | 24V                                                | 24V                                         |
| Output Voltage Range                  | 21.6-26.4V                                   | 24-28V                                                | 24-28V                                                | 24-28V                                             | 22-24V                                      |
| Output Current                        | 0-1.25A                                      | 0-1.25A                                               | 0-2.1A                                                | 0-4.0A                                             | 0-3.8A                                      |
| Output Power                          | 30W                                          | 30W                                                   | 50W                                                   | 96W                                                | 91.2W                                       |
| Line Regulation                       | < 1.0%                                       | < 0.5% (@ 85-264Vac, 100% load)                       |                                                       |                                                    |                                             |
| Load Regulation                       | < 1.0%                                       | < 1.0% (@ 85-264Vac, 0-100% load)                     |                                                       |                                                    |                                             |
| PARD (20MHz)                          | < 150mVpp                                    | < 75mVpp @ > 0°C to 70°C,<br>< 150mVpp @ 0°C to -20°C | < 70mVpp @ > 0°C to 70°C,<br>< 100mVpp @ 0°C to -20°C | < 50mVpp @ > 0°C to 70°C, < 100mVpp @ 0°C to -20°C |                                             |
| Hold-up Time                          | > 20ms @ 230Vac                              | > 20ms @ 115Vac, > 100ms @ 230Vac                     |                                                       | > 50ms @ 115Vac & 230Vac                           |                                             |
| INPUT                                 |                                              |                                                       |                                                       |                                                    |                                             |
| Phase Input                           | Single Phase                                 |                                                       |                                                       |                                                    |                                             |
| Input Voltage Range                   | 85-264Vac                                    | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup>   |                                                       |                                                    |                                             |
| Input Frequency                       | 47-63Hz                                      |                                                       |                                                       |                                                    |                                             |
| Input Current                         | < 0.80A @ 115Vac,<br>< 0.40A @ 230Vac        | < 0.55A @ 115Vac,<br>< 0.35A @ 230Vac                 | < 0.95A @ 115Vac,<br>< 0.55A @ 230Vac                 | < 1.20A @ 115Vac, < 0.60A @ 230Vac                 |                                             |
| Efficiency <sup>2)</sup> at 100% Load | 88.0% typ. @ 230Vac                          | > 87.5% @ 115Vac,<br>> 88.0% @ 230Vac                 | > 89.0% @ 115Vac,<br>> 90.0% @ 230Vac                 | > 89.0% @ 115Vac & 230Vac                          |                                             |
| Max Inrush Current (Cold Start)       | < 60A @ 230Vac                               | < 20A @ 115Vac,<br>< 40A @ 230Vac                     | < 30A @ 115Vac,<br>< 50A @ 230Vac                     | < 25A @ 115Vac, < 40A @ 230Vac                     |                                             |
| Power Factor                          | Conform to EN 61000-3-2                      |                                                       |                                                       | > 0.97 @ 115Vac, > 0.90 @ 230Vac                   |                                             |
| Leakage Current                       | < 0.5mA @ 240Vac                             | < 0.5mA @ 264Vac                                      |                                                       |                                                    |                                             |
| MECHANICAL                            |                                              |                                                       |                                                       |                                                    |                                             |
| Case Cover / Chassis                  | Plastic                                      |                                                       |                                                       |                                                    |                                             |
| Dimensions (L × W × D)                | 75 × 21 × 89.5 mm<br>(2.95" × 0.83" × 3.52") | 75 × 21 × 89.5 mm<br>(2.95" × 0.83" × 3.52")          | 75 × 30 × 89.5 mm<br>(2.95" × 1.18" × 3.52")          | 75 × 45 × 100 mm<br>(2.95" × 1.77" × 3.94")        | 75 × 45 × 100 mm<br>(2.95" × 1.77" × 3.94") |
| Unit Weight                           | 0.10 kg (0.22 lb)                            | 0.11 kg (0.24 lb)                                     | 0.18 kg (0.40 lb)                                     | 0.325 kg (0.72 lb)                                 | 0.325 kg (0.72 lb)                          |
| Cooling System                        | Convection                                   |                                                       |                                                       |                                                    |                                             |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                | > 700,000 hrs                                         | > 700,000 hrs                                         | > 700,000 hrs                                      | > 700,000 hrs                               |
| ENVIRONMENT                           |                                              |                                                       |                                                       |                                                    |                                             |
| Operating Temperature                 | -20°C to +70°C                               |                                                       |                                                       |                                                    |                                             |
| Storage Temperature                   | -40°C to +85°C                               |                                                       |                                                       |                                                    |                                             |
| Power De-rating                       | < -10°C (5% / °C),<br>> 55°C (3.33% / °C)    | < -10°C (2% / °C), > 55°C (3.33% / °C)                |                                                       |                                                    |                                             |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                                       |                                                       |                                                    |                                             |
| Operating Altitude                    | 0 to 2,000 m (0 to 6,560 ft)                 |                                                       |                                                       |                                                    |                                             |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac & 230Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Delta Industrial Power Supplies

## Panel Mount Power Supply



AR

### PMT



- AC input voltage selectable by switch (Universal AC input voltage range for selected models only)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A (except 200W and 350W)
- High MTBF > 700,000 hrs per Telcordia SR-332
- Versatile configuration options:
  - Open Frame (35W and 50W, except for 5V/35W, 5V/50W and 15V/50W models)
  - L Frame (35W-200W)
  - Enclosed



AR

### PMT2

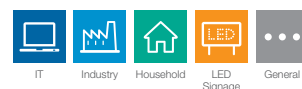


- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Universal AC input voltage range (except 150W)
- No load power consumption
- Low profile design: 30mm height
- Over Voltage Category III
- Extreme low temperature cold start at -40°C
- High MTBF > 700,000 hrs per Telcordia SR-332



AR

### PMC



- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range (except PMC-□V600W1BA)
- Full corrosion resistant aluminium casing (except PMC-05V015W1AA and PMC-□V600W1BA)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A (except PMC-24V150W1A□)
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55032, Class B
- Also available: IP20 and Front Face connectors for selected models



AR

### PMH



- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Universal AC input voltage range
- Full corrosion resistant aluminium casing
- High MTBF > 700,000 hrs per Telcordia SR-332
- Low profile design for 1U installation (for PMH-12V100WCL□, PMH-24V100WCL□, PMH-24V100WCM□ and PMH-24V150WCL□)
- NEC Class 2 options available



AR

### PMF



- Universal AC input voltage range
- Built-in active PFC and automatic fan speed control
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class D
- Remote ON/OFF is available as an option
- Short Circuit / Overvoltage / Overcurrent / Over Temperature Protections

# Delta Industrial Power Supplies

## Panel Mount Power Supply



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### PMR



- Universal AC input voltage range
- Full corrosion resistant aluminium casing
- Built-in active PFC and conforms to harmonic current IEC/EN 61000-3-2, Class A and Class D
- Low profile design for 1U installation
- Built-in DC OK relay contact and redundancy operation (PMR-□V320WDBA and PMR-□V320WDCA)



AR

### PMU



- AC input voltage selectable by switch
- LED indicators for DC OK (Green) and Battery Reverse Polarity Connection (Red)
- Zero switch over time from loss of AC to battery operation
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Monitoring signals for AC OK, DC OK and Battery Low indication



AR

### MDS



- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. requirements
- Suitable for type BF medical product
- Safety approvals for medical and IT applications
- Remote on/off control
- Power Good signal
- High MTBF > 500,000 hrs as per Telcordia SR-332

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AR

### MEB



- Full power from 90Vac to 264Vac, up to 50°C ambient
- Up to 500K hours MTBF
- 2 × MOPP isolation, Suitable for type BF medical products
- Current sharing and 5V/2A standby output
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- PMBus Ver 1.3 supported
- Intelligent fan speed control

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# PMT Panel Mount Power Supply

## 4.2V, 5V Output



# PMT

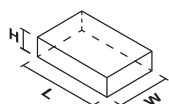
### HIGHLIGHTS & FEATURES

- AC input voltage range selectable by switch (Universal AC input voltage range for selected models)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A for selected models
- High MTBF > 700,000 hrs per Telcordia SR-332
- Short Circuit / Overvoltage / Overload / Over Temperature Protections
- Versatile configuration options (for 35W and 50W):
  - L Frame
  - Enclosed

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMT-4V350W1A□                                   | PM□-5V35W1A□                                | PM□-5V50W1A□                                | PMT-5V350W1A□                                   |
|---------------------------------------|-------------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------------|
| Output Voltage                        | 4.2V                                            | 5V                                          | 5V                                          | 5V                                              |
| Output Voltage Range                  | 3.78-4.70V                                      | 4.50-5.50V                                  | 4.50-5.50V                                  | 4.50-5.50V                                      |
| Output Current                        | 60.0A                                           | 7.0A                                        | 10.0A                                       | 60.0A                                           |
| Output Power                          | 252W                                            | 35W                                         | 50W                                         | 300W                                            |
| Line Regulation                       | < 0.5%                                          |                                             |                                             |                                                 |
| Load Regulation                       | < 2.5%                                          | < 1.0%                                      |                                             | < 2.5%                                          |
| PARD (20MHz)                          | < 150mVpp                                       | < 80mVpp                                    |                                             | < 150mVpp                                       |
| Hold-up Time                          | 16ms typ. @ 115Vac,<br>20ms typ. @ 230Vac       | 20ms typ. @ 115Vac, 100ms typ. @ 230Vac     |                                             | 16ms typ. @ 115Vac,<br>20ms typ. @ 230Vac       |
| INPUT                                 |                                                 |                                             |                                             |                                                 |
| Phase Input                           | Single Phase                                    |                                             |                                             |                                                 |
| Input Voltage Range                   | 90-132Vac, 180-264Vac<br>(Selectable by Switch) | 85-264Vac                                   |                                             | 90-132Vac, 180-264Vac<br>(Selectable by Switch) |
| Input Frequency                       | 47-63Hz                                         |                                             |                                             |                                                 |
| Input Current                         | 7.00A typ. @ 115Vac,<br>4.00A typ. @ 230Vac     | 0.75A typ. @ 115Vac,<br>0.50A typ. @ 230Vac | 1.10A typ. @ 115Vac,<br>0.65A typ. @ 230Vac | 7.00A typ. @ 115Vac,<br>4.00A typ. @ 230Vac     |
| Efficiency <sup>1)</sup> at 100% Load | 76.0% typ. @ 230Vac                             | 81.0% typ. @ 230Vac                         | 82.0% typ. @ 230Vac                         | 78.0% typ. @ 230Vac                             |
| Max Inrush Current<br>(Cold Start)    | 40A typ. @ 115Vac,<br>60A typ. @ 230Vac         | 45A typ. @ 230Vac                           |                                             | 40A typ. @ 115Vac,<br>60A typ. @ 230Vac         |
| Power Factor                          | NA                                              | Conform to EN 61000-3-2                     |                                             | NA                                              |
| Leakage Current                       | < 1mA @ 240Vac                                  | < 0.5mA @ 240Vac                            | < 1mA @ 240Vac                              |                                                 |
| MECHANICAL                            |                                                 |                                             |                                             |                                                 |
| Case Cover / Chassis                  | Aluminium                                       | SGCC / Aluminium                            |                                             | Aluminium                                       |
| Dimensions (L × W × H)                | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97")    | 98 × 98 × 38 mm<br>(3.86" × 3.86" × 1.50")  | 98 × 98 × 38 mm<br>(3.86" × 3.86" × 1.50")  | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97")    |
| Unit Weight                           | 0.81 kg (1.79 lb)                               | 0.23 kg (0.51 lb)                           | 0.23 kg (0.51 lb)                           | 0.81 kg (1.79 lb)                               |
| Cooling System                        | Forced Air (Built-in Fan)                       | Convection                                  |                                             | Forced Air (Built-in Fan)                       |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                   | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                                   |
| ENVIRONMENT                           |                                                 |                                             |                                             |                                                 |
| Operating Temperature                 | -10°C to +70°C                                  |                                             |                                             |                                                 |
| Storage Temperature                   | -25°C to +85°C                                  |                                             |                                             |                                                 |
| Power De-rating                       | > 50°C (4% / °C),<br>> 60°C (1% / °C)           | > 50°C (2.5% / °C)                          |                                             | > 50°C (4% / °C),<br>> 60°C (1% / °C)           |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                    |                                             |                                             |                                                 |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                   |                                             |                                             |                                                 |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C). For PMT-4V350W1A□ and PMT-5V350W1A□ models, MTBF calculations do not include fan life time.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMT Panel Mount Power Supply

## 12V Output



# PMT

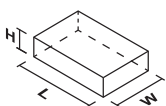
### HIGHLIGHTS & FEATURES

- AC input voltage range selectable by switch (Universal AC input voltage range for selected models)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Short Circuit / Overvoltage / Overload / Over Temperature Protections
- Versatile configuration options (for 150W and below):
  - Open Frame (35W and 50W)
  - L Frame
  - Enclosed

### GENERAL SPECIFICATIONS

| OUTPUT                                | PM□-12V35W1A□                               | PM□-12V50W1A□                               | PM□-12V100W1A□                               | PM□-12V150W1A□                              | PMT-12V350W1A□                               |
|---------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|
| Output Voltage                        | 12V                                         | 12V                                         | 12V                                          | 12V                                         | 12V                                          |
| Output Voltage Range                  | 11-14V                                      | 11-14V                                      | 11.4-13.2V                                   | 11.4-13.5V                                  | 10.8-13.2V                                   |
| Output Current                        | 2.92A                                       | 4.17A                                       | 8.5A                                         | 12.5A                                       | 29.0A                                        |
| Output Power                          | 35W                                         | 50W                                         | 102W                                         | 150W                                        | 348W                                         |
| Line Regulation                       | < 0.5%                                      |                                             |                                              |                                             | ± 0.5% typ.                                  |
| Load Regulation                       | < 1.0%                                      |                                             | < 0.5%                                       |                                             | ± 1.0% typ.                                  |
| PARD (20MHz)                          | < 100mVpp                                   |                                             | < 120mVpp                                    |                                             | < 150mVpp                                    |
| Hold-up Time                          | 16.7ms typ. @ 115Vac                        |                                             | 25ms typ. @ 115Vac,<br>30ms typ. @ 230Vac    | 20ms typ. @ 115Vac,<br>24ms typ. @ 230Vac   | 12ms typ. @ 115Vac,<br>16ms typ. @ 230Vac    |
| INPUT                                 |                                             |                                             |                                              |                                             |                                              |
| Phase Input                           | Single Phase                                |                                             |                                              |                                             |                                              |
| Input Voltage Range                   | 90-264Vac                                   |                                             | 90-132Vac, 180-264Vac (Selectable by Switch) |                                             |                                              |
| Input Frequency                       | 47-63Hz                                     |                                             |                                              |                                             |                                              |
| Input Current                         | 0.75A typ. @ 115Vac,<br>0.50A typ. @ 230Vac | 1.10A typ. @ 115Vac,<br>0.70A typ. @ 230Vac | 2.00A typ. @ 115Vac,<br>1.20A typ. @ 230Vac  | 3.00A typ. @ 115Vac,<br>2.00A typ. @ 230Vac | 7.00A typ. @ 115Vac,<br>4.00A typ. @ 230Vac  |
| Efficiency <sup>1)</sup> at 100% Load | 84.0% typ. @ 115Vac &<br>230Vac             | 83.0% typ. @ 115Vac &<br>230Vac             | 87.5% typ. @ 230Vac                          | 86.0% typ. @ 230Vac                         | 84.0% typ. @ 230Vac                          |
| Max Inrush Current<br>(Cold Start)    | 30A typ. @ 115Vac,<br>60A typ. @ 230Vac     | 30A typ. @ 115Vac,<br>65A typ. @ 230Vac     | 36A typ. @ 230Vac                            | 45A typ. @ 230Vac                           | 50A typ. @ 115Vac,<br>60A typ. @ 230Vac      |
| Power Factor                          | Conform to EN 61000-3-2                     |                                             |                                              |                                             |                                              |
| Leakage Current                       | < 1mA @ 240Vac                              |                                             | < 0.5mA @ 240Vac                             |                                             | < 3.5mA @ 240Vac                             |
| MECHANICAL                            |                                             |                                             |                                              |                                             |                                              |
| Case Cover / Chassis                  | SGCC / Aluminium                            |                                             |                                              |                                             |                                              |
| Dimensions (L × W × H)                | 98 × 98 × 38 mm<br>(3.86" × 3.86" × 1.50")  | 98 × 98 × 38 mm<br>(3.86" × 3.86" × 1.50")  | 158 × 97 × 38 mm<br>(6.22" × 3.82" × 1.50")  | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50") | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") |
| Unit Weight                           | 0.22 kg (0.49 lb)                           | 0.23 kg (0.51 lb)                           | 0.36 kg (0.79 lb)                            | 0.48 kg (1.06 lb)                           | 0.82 kg (1.81 lb)                            |
| Cooling System                        | Convection                                  |                                             |                                              |                                             | Forced Air (Built-in Fan)                    |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                                | > 700,000 hrs                               | > 700,000 hrs                                |
| ENVIRONMENT                           |                                             |                                             |                                              |                                             |                                              |
| Operating Temperature                 | -10°C to +70°C                              |                                             |                                              |                                             |                                              |
| Storage Temperature                   | -25°C to +85°C                              |                                             |                                              |                                             |                                              |
| Power De-rating                       | > 50°C (2.5% / °C)                          |                                             |                                              |                                             |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                |                                             |                                              |                                             |                                              |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)               |                                             |                                              |                                             |                                              |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C). For PMT-12V350W1A□ models, MTBF calculations do not include fan life time.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 15V, 24V Output

## PMT

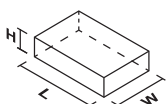
### HIGHLIGHTS & FEATURES

- AC input voltage range selectable by switch (Universal AC input voltage range for selected models)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Short Circuit / Overvoltage / Overload / Over Temperature Protections
- Versatile configuration options:
  - Open Frame (35W and 50W, except PM□-15V50W1A□)
  - L Frame
  - Enclosed

### GENERAL SPECIFICATIONS

| OUTPUT                                | PM□-15V50W1A□                               | PM□-24V35W1A□                               | PM□-24V50W1A□                               | PM□-24V100W1A□                               | PM□-24V150W1A□                              |
|---------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|
| Output Voltage                        | 15V                                         | 24V                                         | 24V                                         | 24V                                          | 24V                                         |
| Output Voltage Range                  | 13.5-16.5V                                  | 22-28V                                      | 22-28V                                      | 22.8-26.4V                                   | 22.8-27.6V                                  |
| Output Current                        | 3.4A                                        | 1.46A                                       | 2.1A                                        | 4.5A                                         | 6.5A                                        |
| Output Power                          | 51W                                         | 35W                                         | 50W                                         | 108W                                         | 156W                                        |
| Line Regulation                       | < 0.5%                                      |                                             |                                             |                                              |                                             |
| Load Regulation                       | < 0.5%                                      | < 1.0%                                      |                                             | < 0.5%                                       |                                             |
| PARD (20MHz)                          | < 150mVpp                                   | < 100mVpp                                   |                                             | < 120mVpp                                    |                                             |
| Hold-up Time                          | 20ms typ. @115Vac,<br>100ms typ. @ 230Vac   | 16.7ms typ. @ 115Vac                        |                                             | 25ms typ. @ 115Vac,<br>30ms typ. @ 230Vac    | 20ms typ. @ 115Vac,<br>24ms typ. @ 230Vac   |
| INPUT                                 |                                             |                                             |                                             |                                              |                                             |
| Phase Input                           | Single Phase                                |                                             |                                             |                                              |                                             |
| Input Voltage Range                   | 85-264Vac                                   | 90-264Vac                                   |                                             | 90-132Vac, 180-264Vac (Selectable by Switch) |                                             |
| Input Frequency                       | 47-63Hz                                     |                                             |                                             |                                              |                                             |
| Input Current                         | 1.10A typ. @ 115Vac,<br>0.65A typ. @ 230Vac | 0.75A typ. @ 115Vac,<br>0.50A typ. @ 230Vac | 1.10A typ. @ 115Vac,<br>0.65A typ. @ 230Vac | 2.00A typ. @ 115Vac,<br>1.20A typ. @ 230Vac  | 3.00A typ. @ 115Vac,<br>2.00A typ. @ 230Vac |
| Efficiency <sup>1)</sup> at 100% Load | 85.5% typ. @ 230Vac                         | 85.0% typ. @ 115Vac &<br>230Vac             | 86.0% typ. @ 115Vac &<br>230Vac             | 89.0% typ. @ 230Vac                          |                                             |
| Max Inrush Current<br>(Cold Start)    | 45A typ. @ 230Vac                           | 30A typ. @ 115Vac, 60A typ. @ 230Vac        |                                             | 36A typ. @ 230Vac                            | 45A typ. @ 230Vac                           |
| Power Factor                          | Conform to EN 61000-3-2                     |                                             |                                             |                                              |                                             |
| Leakage Current                       | < 0.5mA @ 240Vac                            | < 1mA @ 240Vac                              |                                             | < 0.5mA @ 240Vac                             |                                             |
| MECHANICAL                            |                                             |                                             |                                             |                                              |                                             |
| Case Cover / Chassis                  | SGCC / Aluminium                            |                                             |                                             |                                              |                                             |
| Dimensions (L × W × H)                | 98 × 98 × 38 mm<br>(3.86" × 3.86" × 1.50")  | 98 × 98 × 38 mm<br>(3.86" × 3.86" × 1.50")  | 98 × 98 × 38 mm<br>(3.86" × 3.86" × 1.50")  | 158 × 97 × 38 mm<br>(6.22" × 3.82" × 1.50")  | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50") |
| Unit Weight                           | 0.23 kg (0.51 lb)                           | 0.22 kg (0.49 lb)                           | 0.24 kg (0.53 lb)                           | 0.36 kg (0.79 lb)                            | 0.48 kg (1.06 lb)                           |
| Cooling System                        | Convection                                  |                                             |                                             |                                              |                                             |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                                | > 700,000 hrs                               |
| ENVIRONMENT                           |                                             |                                             |                                             |                                              |                                             |
| Operating Temperature                 | -10°C to +70°C                              |                                             |                                             |                                              |                                             |
| Storage Temperature                   | -25°C to +85°C                              |                                             |                                             |                                              |                                             |
| Power De-rating                       | > 50°C (2.5% / °C)                          |                                             |                                             |                                              |                                             |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                |                                             |                                             |                                              |                                             |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)               |                                             |                                             |                                              |                                             |

Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C).
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMT Panel Mount Power Supply

## 24V Output



# PMT

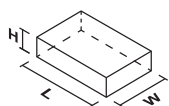
### HIGHLIGHTS & FEATURES

- AC input voltage range selectable by switch
- Full corrosion resistant aluminium casing
- High Efficiency > 87.0% @ 230Vac
- High MTBF > 700,000 hrs per Telcordia SR-332
- Short Circuit / Overvoltage / Overload / Over Temperature Protections
- Versatile configuration options (for 200W):
  - L Frame
  - Enclosed

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMT-24V200W1A□                               | PMT-24V350W1AG                               | PMT-24V350W1AM                               | PMT-24V350W1AK                               | PMT-24V350W1AR                               |
|---------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| Output Voltage                        | 24V                                          | 24V                                          | 24V                                          | 24V                                          | 24V                                          |
| Output Voltage Range                  | 21.6-26.4V                                   | 20.0-26.4V                                   | 20.0-26.4V                                   | 20.0-26.4V                                   | 20.0-26.4V                                   |
| Output Current                        | 8.8A                                         | 14.6A                                        | 14.6A                                        | 14.6A                                        | 14.6A                                        |
| Output Power                          | 211.2W                                       | 350.4W                                       | 350.4W                                       | 350.4W                                       | 350.4W                                       |
| Line Regulation                       | < 0.5%                                       |                                              |                                              |                                              |                                              |
| Load Regulation                       | < 0.5%                                       |                                              |                                              |                                              |                                              |
| PARD (20MHz)                          | < 150mVpp                                    |                                              |                                              |                                              |                                              |
| Hold-up Time                          | 20ms typ. @ 115Vac,<br>24ms typ. @ 230Vac    | 16ms typ. @ 115Vac, 20ms typ. @ 230Vac       |                                              |                                              |                                              |
| INPUT                                 |                                              |                                              |                                              |                                              |                                              |
| Phase Input                           | Single Phase                                 |                                              |                                              |                                              |                                              |
| Input Voltage Range                   | 90-132Vac, 180-264Vac (Selectable by Switch) |                                              |                                              |                                              |                                              |
| Input Frequency                       | 47-63Hz                                      |                                              |                                              |                                              |                                              |
| Input Current                         | 4.5A typ. @ 115Vac,<br>2.5A typ. @ 230Vac    | 7.0A typ. @ 115Vac,<br>4.0A typ. @ 230Vac    | 7.0A typ. @ 115Vac,<br>4.0A typ. @ 230Vac    | 7.0A typ. @ 115Vac,<br>4.0A typ. @ 230Vac    | 7.0A typ. @ 115Vac,<br>4.0A typ. @ 230Vac    |
| Efficiency <sup>1)</sup> at 100% Load | 88.5% typ. @ 230Vac                          | 87.0% typ. @ 230Vac                          |                                              |                                              |                                              |
| Max Inrush Current<br>(Cold Start)    | 55A typ. @ 230Vac                            | 50A typ. @ 115Vac, 60A typ. @ 230Vac         |                                              |                                              |                                              |
| Power Factor                          | NA                                           |                                              |                                              |                                              |                                              |
| Leakage Current                       | < 0.25mA @ 240Vac                            | < 3.5mA @ 240Vac                             |                                              |                                              |                                              |
| MECHANICAL                            |                                              |                                              |                                              |                                              |                                              |
| Case Cover / Chassis                  | Aluminium                                    |                                              |                                              |                                              |                                              |
| Dimensions (L × W × H)                | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") |
| Unit Weight                           | 0.63 kg (1.39 lb)                            | 0.82 kg (1.81 lb)                            | 0.82 kg (1.81 lb)                            | 0.82 kg (1.81 lb)                            | 0.82 kg (1.81 lb)                            |
| Cooling System                        | Convection                                   | Forced Air (Built-in Fan)                    |                                              |                                              |                                              |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                |
| ENVIRONMENT                           |                                              |                                              |                                              |                                              |                                              |
| Operating Temperature                 | -10°C to +60°C                               | -10°C to +70°C                               |                                              |                                              |                                              |
| Storage Temperature                   | -25°C to +85°C                               |                                              |                                              |                                              |                                              |
| Power De-rating                       | > 40°C (2.5% / °C)                           | > 50°C (2.5% / °C)                           |                                              |                                              |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                              |                                              |                                              |                                              |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                |                                              |                                              |                                              |                                              |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C). For PMT-24V350W1A□ models, MTBF calculations do not include fan life time.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 36V, 48V, Dual Output



## PMT

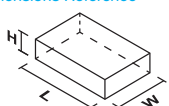
### HIGHLIGHTS & FEATURES

- AC input voltage range selectable by switch
- Conforms to harmonic current IEC/EN 61000-3-2, Class A for selected models
- High MTBF > 700,000 hrs per Telcordia SR-332
- Short Circuit / Overvoltage / Overload / Over Temperature Protections
- Versatile configuration options:
  - L Frame
  - Enclosed

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMT-36V350W1A□                               | PM□-48V150W1A□                           | PMT-48V350W1A□                            | PM□-D1V100W1A□                               | PM□-D2V100W1A□                           |
|---------------------------------------|----------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------------|------------------------------------------|
| Output Voltage                        | 36V                                          | 48V                                      | 48V                                       | V1: 12V, V2: 5V                              | V1: 24V, V2: 5V                          |
| Output Voltage Range                  | 32.4-39.6V                                   | 45.6-52.8V                               | 43.2-52.8V                                | V1: 10.8-13.2V                               | V1: 21.6-26.4V                           |
| Output Current                        | 9.7A                                         | 3.3A                                     | 7.3A                                      | V1: 7.0A, V2: 3.0A                           | V1: 3.5A, V2: 3.0A                       |
| Output Power                          | 349.2W                                       | 158.4W                                   | 350W                                      | V1: 84W, V2: 15W                             | V1: 84W, V2: 15W                         |
| Line Regulation                       | < 0.5%                                       |                                          |                                           |                                              |                                          |
| Load Regulation                       | < 1.0%                                       | < 0.5 %                                  | < 1.0%                                    | V1: < 1.0%, V2: < 2.0%                       | V1: < 1.0%, V2: < 2.0%                   |
| PARD (20MHz)                          | < 240mVpp                                    | < 200mVpp                                | < 240mVpp                                 | V1: 120mVpp, V2: 80mVpp                      | V1: 120mVpp, V2: 80mVpp                  |
| Hold-up Time                          | 16ms typ. @ 115Vac, 20ms typ. @ 230Vac       | 20ms typ. @ 115Vac, 24ms typ. @ 230Vac   | 16ms typ. @ 115Vac, 20ms typ. @ 230Vac    | 20ms typ. @ 115Vac, 25ms typ. @ 230Vac       |                                          |
| INPUT                                 |                                              |                                          |                                           |                                              |                                          |
| Phase Input                           | Single Phase                                 |                                          |                                           |                                              |                                          |
| Input Voltage Range                   | 90-132Vac, 180-264Vac (Selectable by Switch) |                                          |                                           | 88-132Vac, 176-264Vac (Selectable by Switch) |                                          |
| Input Frequency                       | 47-63Hz                                      |                                          |                                           |                                              |                                          |
| Input Current                         | 7.0A typ. @ 115Vac, 4.0A typ. @ 230Vac       | 3.0A typ. @ 115Vac, 2.0A typ. @ 230Vac   | 7.0A typ. @ 115Vac, 4.0A typ. @ 230Vac    | 2.0A typ. @ 115Vac, 1.2A typ. @ 230Vac       | 2.0A typ. @ 115Vac, 1.2A typ. @ 230Vac   |
| Efficiency <sup>1)</sup> at 100% Load | 87.5% typ. @ 230Vac                          | 89.0% typ. @ 230Vac                      | 87.5% typ. @ 230Vac                       | 82.0% typ. @ 230Vac                          | 84.0% @ 230Vac                           |
| Max Inrush Current (Cold Start)       | 40A typ. @ 115Vac, 60A typ. @ 230Vac         | 45A typ. @ 230Vac                        | 40A typ. @ 115Vac, 60A typ. @ 230Vac      | 45A typ. @ 230Vac                            |                                          |
| Power Factor                          | NA                                           | Conform to EN 61000-3-2                  | NA                                        | Conform to EN 61000-3-2                      |                                          |
| Leakage Current                       | < 3.5mA @ 240Vac                             | < 0.5mA @ 240Vac                         | < 3.5mA @ 240Vac                          | < 0.25mA @ 240Vac                            |                                          |
| MECHANICAL                            |                                              |                                          |                                           |                                              |                                          |
| Case Cover / Chassis                  | Aluminium                                    | SGCC / Aluminium                         | Aluminium                                 | SGCC / Aluminium                             |                                          |
| Dimensions (L × W × H)                | 215 × 115 × 50 mm (8.46" × 4.53" × 1.97")    | 178 × 97 × 38 mm (7.01" × 3.82" × 1.50") | 215 × 115 × 50 mm (8.46" × 4.53" × 1.97") | 178 × 97 × 38 mm (7.01" × 3.82" × 1.50")     | 178 × 97 × 38 mm (7.01" × 3.82" × 1.50") |
| Unit Weight                           | 0.83 kg (1.83 lb)                            | 0.48 kg (1.06 lb)                        | 0.83 kg (1.83 lb)                         | 0.45 kg (0.99 lb)                            | 0.42 kg (0.93 lb)                        |
| Cooling System                        | Forced Air (Built-in Fan)                    | Convection                               | Forced Air (Built-in Fan)                 | Convection                                   |                                          |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                | > 700,000 hrs                            | > 700,000 hrs                             | > 700,000 hrs                                | > 700,000 hrs                            |
| ENVIRONMENT                           |                                              |                                          |                                           |                                              |                                          |
| Operating Temperature                 | -10°C to +70°C                               |                                          |                                           |                                              |                                          |
| Storage Temperature                   | -25°C to +85°C                               |                                          |                                           |                                              |                                          |
| Power De-rating                       | > 50°C (2.5% / °C)                           |                                          |                                           |                                              |                                          |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                          |                                           |                                              |                                          |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                |                                          |                                           |                                              |                                          |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C). For PMT-36V350W1A□ and PMT-48V350W1A□ models, MTBF calculations does not include fan life time.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# PMT2 Panel Mount Power Supply

## 12V, 24V Output



## PMT2

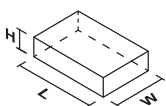
### HIGHLIGHTS & FEATURES

- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Universal AC input voltage range (except 150W)
- No load power consumption
- Low profile design: 30mm height
- Over Voltage Category III
- Extreme low temperature cold start at -40°C
- High MTBF > 700,000 hrs per Telcordia SR-332

### GENERAL SPECIFICATIONS

|                                       | NEW                                                                                                                                                         | NEW                                         | NEW                                         | NEW                                         | NEW                                                  | NEW                                                  |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| OUTPUT                                | PMT-12V50W2BA                                                                                                                                               | PMT-12V100W2BA                              | PMT-12V150W2BA                              | PMT-24V50W2BA                               | PMT-24V100W2BA                                       | PMT-24V150W2BA                                       |
| Output Voltage                        | 12V                                                                                                                                                         | 12V                                         | 12V                                         | 24V                                         | 24V                                                  | 24V                                                  |
| Output Voltage Range                  | 10.8-13.2V                                                                                                                                                  | 10.8-13.2V                                  | 10.8-13.2V                                  | 21.6-26.4V                                  | 21.6-26.4V                                           | 21.6-26.4V                                           |
| Output Current                        | 4.2A                                                                                                                                                        | 8.5A                                        | 12.5A                                       | 2.2A                                        | 4.5A                                                 | 6.25A                                                |
| Output Power                          | 50.4W                                                                                                                                                       | 102W                                        | 150W                                        | 52.8W                                       | 108W                                                 | 150W                                                 |
| Line Regulation                       | PMT-□V50W2BA, PMT-□V100W2BA: < 0.5% typ. (@ 115Vac & 230Vac input, 100% load)<br>PMT-□V150W2BA: < 0.5% typ. @ 100-132Vac, 170-264Vac (Selectable by Switch) |                                             |                                             |                                             |                                                      |                                                      |
| Load Regulation                       | PMT-□V50W2BA, PMT-□V100W2BA: < 0.5% typ. (@ 115Vac & 230Vac input, 100% load)<br>PMT-□V150W2BA: < 0.5% typ. @ 100-132Vac, 170-264Vac (Selectable by Switch) |                                             |                                             |                                             |                                                      |                                                      |
| PARD (20MHz)                          | < 120mVpp @ 0°C to 50°C,<br>< 360mVpp @ -30°C to 0°C                                                                                                        |                                             |                                             |                                             | < 150mVpp @ 0°C to 50°C,<br>< 450mVpp @ -30°C to 0°C | < 170mVpp @ 0°C to 50°C,<br>< 510mVpp @ -30°C to 0°C |
| Hold-up Time                          | 15ms typ. @115Vac,<br>70ms typ. @ 230Vac                                                                                                                    | 5ms typ. @ 115Vac,<br>40ms typ. @ 230Vac    | 30ms typ. @ 115Vac<br>& 230Vac              | 15ms typ. @115Vac,<br>70ms typ. @ 230Vac    | 5ms typ. @ 115Vac,<br>40ms typ. @ 230Vac             | 30ms typ. @ 115Vac<br>& 230Vac                       |
| INPUT                                 |                                                                                                                                                             |                                             |                                             |                                             |                                                      |                                                      |
| Phase Input                           | Single Phase                                                                                                                                                |                                             |                                             |                                             |                                                      |                                                      |
| Input Voltage Range                   | PMT-□V50W2BA, PMT-□V100W2BA: 90-264Vac<br>PMT-□V150W2BA: 90-132Vac, 170-264Vac (Selectable by Switch)                                                       |                                             |                                             |                                             |                                                      |                                                      |
| Input Frequency                       | 47-63Hz                                                                                                                                                     |                                             |                                             |                                             |                                                      |                                                      |
| Input Current                         | 0.95A typ. @ 115Vac,<br>0.55A typ. @ 230Vac                                                                                                                 | 1.9A typ. @ 115Vac,<br>1.2A typ. @ 230Vac   | 3.0A typ. @ 115Vac,<br>1.7A typ. @ 230Vac   | 0.95A typ. @ 115Vac,<br>0.55A typ. @ 230Vac | 1.9A typ. @ 115Vac,<br>1.2A typ. @ 230Vac            | 3.0A typ. @ 115Vac,<br>1.7A typ. @ 230Vac            |
| Efficiency <sup>1)</sup> at 100% Load | 86% typ. @ 230Vac                                                                                                                                           | 87% typ. @ 230Vac                           | 85.8% typ. @ 230Vac                         | 88.3% typ. @ 230Vac                         | 89% typ. @ 230Vac                                    | 88.8% typ. @ 230Vac                                  |
| Max Inrush Current<br>(Cold Start)    | 40A typ. @ 230Vac                                                                                                                                           | 45A typ. @ 230Vac                           | 30A typ. @ 230Vac                           | 40A typ. @ 230Vac                           | 45A typ. @ 230Vac                                    | 30A typ. @ 230Vac                                    |
| Power Factor                          | NA                                                                                                                                                          |                                             |                                             |                                             |                                                      |                                                      |
| Leakage Current<br>(240Vac, 50Hz)     | < 0.75mA                                                                                                                                                    |                                             |                                             |                                             |                                                      |                                                      |
| MECHANICAL                            |                                                                                                                                                             |                                             |                                             |                                             |                                                      |                                                      |
| Case Cover / Chassis                  | SGCC / Aluminium                                                                                                                                            |                                             |                                             |                                             |                                                      |                                                      |
| Dimensions (L × W × H)                | 99 × 82 × 30 mm<br>(3.90" × 3.23" × 1.18")                                                                                                                  | 129 × 97 × 30 mm<br>(5.08" × 3.82" × 1.18") | 159 × 97 × 30 mm<br>(6.26" × 3.82" × 1.18") | 99 × 82 × 30 mm<br>(3.90" × 3.23" × 1.18")  | 129 × 97 × 30 mm<br>(5.08" × 3.82" × 1.18")          | 159 × 97 × 30 mm<br>(6.26" × 3.82" × 1.18")          |
| Unit Weight                           | 0.18 kg (0.39 lb)                                                                                                                                           | 0.29 kg (0.63 lb)                           | 0.35 kg (0.78 lb)                           | 0.18 kg (0.39 lb)                           | 0.29 kg (0.63 lb)                                    | 0.35 kg (0.78 lb)                                    |
| Cooling System                        | Convection                                                                                                                                                  |                                             |                                             |                                             |                                                      |                                                      |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                                                                                                                               | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                                        | > 700,000 hrs                                        |
| ENVIRONMENT                           |                                                                                                                                                             |                                             |                                             |                                             |                                                      |                                                      |
| Operating Temperature                 | -30°C to +70°C                                                                                                                                              |                                             |                                             |                                             |                                                      |                                                      |
| Storage Temperature                   | -25°C to +85°C                                                                                                                                              |                                             |                                             |                                             |                                                      |                                                      |
| Power De-rating                       | PMT-□V50W2BA, PMT-□V100W2BA: > 50°C (2% / °C)<br>PMT-□V150W2BA: > 50°C (2% / °C), < -25°C (4% / °C) @ 100Vac                                                |                                             |                                             |                                             |                                                      |                                                      |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                                                                                                |                                             |                                             |                                             |                                                      |                                                      |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                                                                                                                               |                                             |                                             |                                             |                                                      |                                                      |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230Vac, O/P: 100% load).
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMC Panel Mount Power Supply

## 5V Output

# PMC

### HIGHLIGHTS & FEATURES

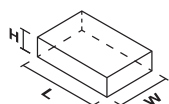
- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Full corrosion resistant aluminium casing (except PMC-05V015W1AA)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55032, Class B



### GENERAL SPECIFICATIONS

| OUTPUT                                | PMC-05V015W1AA                                      | PMC-05V035W1A□                             | PMC-05V050W1AA                              |
|---------------------------------------|-----------------------------------------------------|--------------------------------------------|---------------------------------------------|
| Output Voltage                        | 5V                                                  | 5V                                         | 5V                                          |
| Output Voltage Range                  | 4.75-5.50V                                          | 4.75-5.50V                                 | 4.75-5.50V                                  |
| Output Current                        | 0-3.0A                                              | 0-7.0A                                     | 0-10.0A                                     |
| Output Power                          | 15W                                                 | 35W                                        | 50W                                         |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          |                                            |                                             |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        |                                            |                                             |
| PARD (20MHz)                          | < 70mVpp                                            |                                            |                                             |
| Hold-up Time                          | > 15ms @ 115Vac, > 80ms @ 230Vac                    |                                            |                                             |
| INPUT                                 |                                                     |                                            |                                             |
| Phase Input                           | Single Phase                                        |                                            |                                             |
| Input Voltage Range                   | 85-264Vac (DC input range 125-375Vdc) <sup>1)</sup> |                                            |                                             |
| Input Frequency                       | 47-63Hz                                             |                                            |                                             |
| Input Current                         | < 0.32A @ 115Vac,<br>< 0.22A @ 230Vac               | < 0.90A @ 115Vac,<br>< 0.80A @ 230Vac      | < 1.10A @ 115Vac,<br>< 0.70A @ 230Vac       |
| Efficiency <sup>2)</sup> at 100% Load | > 79.0% @ 115Vac & 230Vac                           | > 78.0% @ 115Vac,<br>> 79.0% @ 230Vac      | > 79.0% @ 115Vac & 230Vac                   |
| Max Inrush Current (Cold Start)       | < 30A @ 115Vac,<br>< 65A @ 230Vac                   | < 30A @ 115Vac,<br>< 60A @ 230Vac          | < 30A @ 115Vac,<br>< 65A @ 230Vac           |
| Power Factor                          | Conform to EN 61000-3-2                             |                                            |                                             |
| Leakage Current                       | < 1mA @ 240Vac                                      |                                            |                                             |
| MECHANICAL                            |                                                     |                                            |                                             |
| Case Cover / Chassis                  | SECC Steel                                          | Aluminium                                  |                                             |
| Dimensions (L × W × H)                | 77 × 51 × 28 mm<br>(3.03" × 2.01" × 1.10")          | 98 × 97 × 38 mm<br>(3.86" × 3.82" × 1.50") | 128 × 97 × 38 mm<br>(5.04" × 3.82" × 1.50") |
| Unit Weight                           | 0.16 kg (0.35 lb)                                   | 0.18 kg (0.40 lb)                          | 0.26 kg (0.57 lb)                           |
| Cooling System                        | Convection                                          |                                            |                                             |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                       | > 700,000 hrs                              | > 700,000 hrs                               |
| ENVIRONMENT                           |                                                     |                                            |                                             |
| Operating Temperature                 | -10°C to +70°C                                      |                                            |                                             |
| Storage Temperature                   | -25°C to +85°C                                      |                                            |                                             |
| Power De-rating                       | > 60°C (2.5% / °C)                                  | > 50°C (2.5% / °C)                         |                                             |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                            |                                             |
| Operating Altitude                    | 0 to 3,000 m (0 to 9,840 ft)                        |                                            |                                             |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input except PMC-05V015W1AA which still fulfills the test conditions of this range. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMC Panel Mount Power Supply

## 12V Output

# PMC

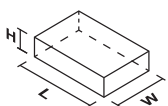
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55032, Class B
- Also available: IP20 connector

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMC-12V035W1A□                                      | PMC-12V050W1A□                              | PMC-12V060W1NA                              | PMC-12V100W1AA                              |
|---------------------------------------|-----------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Output Voltage                        | 12V                                                 | 12V                                         | 12V                                         | 12V                                         |
| Output Voltage Range                  | 11-14V                                              | 11-14V                                      | 12-14V                                      | 11-14V                                      |
| Output Current                        | 0-3.0A                                              | 0-4.17A                                     | 0-5.0A                                      | 0-8.33A                                     |
| Output Power                          | 35W                                                 | 50W                                         | 60W                                         | 100W                                        |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          |                                             |                                             |                                             |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        |                                             |                                             |                                             |
| PARD (20MHz)                          | < 100mVpp                                           |                                             |                                             |                                             |
| Hold-up Time                          | > 15ms @ 115Vac, > 80ms @ 230Vac                    |                                             |                                             |                                             |
| INPUT                                 |                                                     |                                             |                                             |                                             |
| Phase Input                           | Single Phase                                        |                                             |                                             |                                             |
| Input Voltage Range                   | 85-264Vac (DC input range 125-375Vdc) <sup>1)</sup> |                                             |                                             |                                             |
| Input Frequency                       | 47-63Hz                                             |                                             |                                             |                                             |
| Input Current                         | < 0.75A @ 115Vac,<br>< 0.50A @ 230Vac               | < 1.10A @ 115Vac,<br>< 0.70A @ 230Vac       | < 1.35A @ 115Vac,<br>< 0.90A @ 230Vac       | < 2.00A @ 115Vac,<br>< 1.10A @ 230Vac       |
| Efficiency <sup>2)</sup> at 100% Load | > 85.0% @ 115Vac,<br>> 86.0% @ 230Vac               | > 84.0% @ 115Vac & 230Vac                   | > 86.0% @ 115Vac,<br>> 87.0% @ 230Vac       | > 84.0% @ 115Vac,<br>> 86.0% @ 230Vac       |
| Max Inrush Current (Cold Start)       | < 30A @ 115Vac,<br>< 60A @ 230Vac                   | < 30A @ 115Vac,<br>< 65A @ 230Vac           | < 50A @ 115Vac,<br>< 100A @ 230Vac          | < 60A @ 115Vac,<br>< 130A @ 230Vac          |
| Power Factor                          | Conform to EN 61000-3-2                             |                                             |                                             |                                             |
| Leakage Current                       | < 1mA @ 240Vac                                      |                                             |                                             |                                             |
| MECHANICAL                            |                                                     |                                             |                                             |                                             |
| Case Cover / Chassis                  | Aluminium                                           |                                             |                                             |                                             |
| Dimensions (L × W × H)                | 98 × 97 × 38 mm<br>(3.86" × 3.82" × 1.50")          | 128 × 97 × 38 mm<br>(5.04" × 3.82" × 1.50") | 128 × 97 × 38 mm<br>(5.04" × 3.82" × 1.50") | 158 × 97 × 38 mm<br>(6.22" × 3.82" × 1.50") |
| Unit Weight                           | 0.21 kg (0.46 lb)                                   | 0.26 kg (0.57 lb)                           | 0.28 kg (0.62 lb)                           | 0.45 kg (0.99 lb)                           |
| Cooling System                        | Convection                                          |                                             |                                             |                                             |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                       | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                               |
| ENVIRONMENT                           |                                                     |                                             |                                             |                                             |
| Operating Temperature                 | -10°C to +70°C                                      |                                             | -20°C to +70°C                              | -10°C to +70°C                              |
| Storage Temperature                   | -25°C to +85°C                                      |                                             |                                             |                                             |
| Power De-rating                       | > 50°C (2.5% / °C)                                  |                                             | < -10°C (2% / °C),<br>> 50°C (2.5% / °C)    | > 50°C (2.5% / °C)                          |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                             |                                             |                                             |
| Operating Altitude                    | 0 to 3,000 m (0 to 9,840 ft)                        |                                             |                                             |                                             |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 12V Output



## PMC

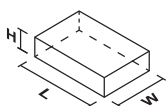
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Full corrosion resistant aluminium casing (except PMC-12V600W1BA)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55032, Class B

### GENERAL SPECIFICATIONS

|                                       |                                                     | NEW                                                 |
|---------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| OUTPUT                                | PMC-12V150W1B□                                      | PMC-12V600W1BA                                      |
| Output Voltage                        | 12V                                                 | 12V                                                 |
| Output Voltage Range                  | 11-14V                                              | 10.8-13.2V                                          |
| Output Current                        | 0-12.5A                                             | 0-50A                                               |
| Output Power                          | 150W                                                | 600W                                                |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          | < 48mV (@100-264Vac input, 100% load)               |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        | < 100mV (@100-264Vac input, 0-100% load)            |
| PARD (20MHz)                          | < 100mVpp                                           | < 240mVpp                                           |
| Hold-up Time                          | > 30ms @ 115Vac & 230Vac (100% load)                | > 20ms @ 115Vac & 230Vac (100% load)                |
| INPUT                                 |                                                     |                                                     |
| Phase Input                           | Single Phase                                        |                                                     |
| Input Voltage Range                   | 85-264Vac (DC input range 125-375Vdc) <sup>1)</sup> | 85-264Vac (DC input range 120-375Vdc) <sup>1)</sup> |
| Input Frequency                       | 47-63Hz                                             |                                                     |
| Input Current                         | < 1.70A @ 115Vac,<br>< 1.00A @ 230Vac               | < 6.5A @ 115Vac,<br>< 3.2A @ 230Vac                 |
| Efficiency <sup>2)</sup> at 100% Load | > 87.0% @ 115Vac,<br>> 88.0% @ 230Vac               | > 84% @ 115Vac,<br>> 87% @ 230Vac                   |
| Max Inrush Current (Cold Start)       | < 60A @ 115Vac,<br>< 120A @ 230Vac                  | < 20A @ 115Vac,<br>< 40A @ 230Vac                   |
| Power Factor                          | > 0.99 @ 115Vac,<br>> 0.90 @ 230Vac                 | > 0.98 @ 115Vac,<br>> 0.95 @ 230Vac                 |
| Leakage Current                       | < 1mA @ 240Vac                                      |                                                     |
| MECHANICAL                            |                                                     |                                                     |
| Case Cover / Chassis                  | Aluminium                                           | SECC Steel                                          |
| Dimensions (L × W × H)                | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")         | 215 × 120 × 61 mm<br>(8.46" × 4.72" × 2.4")         |
| Unit Weight                           | 0.54 kg (1.19 lb)                                   | 1.51 kg (3.33 lb)                                   |
| Cooling System                        | Convection                                          | Forced Air (Built-in Fan)                           |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                       | > 700,000 hrs                                       |
| ENVIRONMENT                           |                                                     |                                                     |
| Operating Temperature                 | -10°C to +70°C                                      | -20°C to +70°C                                      |
| Storage Temperature                   | -25°C to +85°C                                      | -40°C to +85°C                                      |
| Power De-rating                       | > 50°C (2.5% / °C)                                  | > 50°C (2.5% / °C)                                  |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                                     |
| Operating Altitude                    | 0 to 3,000 m (0 to 9,840 ft)                        |                                                     |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation. For PMC-12V600W1BA, MTBF calculations do not include fan life time.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMC Panel Mount Power Supply

## 24V Output



# PMC

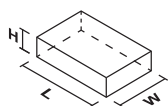
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55032, Class B
- Also available: IP20 connector

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMC-24V035W1A□                                      | PMC-24V050W1A□                              | PMC-24V075W1A□                              | PMC-24V100W1A□                              | PMC-24V150W1A□                              |
|---------------------------------------|-----------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Output Voltage                        | 24V                                                 | 24V                                         | 24V                                         | 24V                                         | 24V                                         |
| Output Voltage Range                  | 22-28V                                              | 22-28V                                      | 22-28V                                      | 22-28V                                      | 22-28V                                      |
| Output Current                        | 0-1.46A                                             | 0-2.1A                                      | 0-3.12A                                     | 0-4.17A                                     | 0-6.25A                                     |
| Output Power                          | 35W                                                 | 50W                                         | 75W                                         | 100W                                        | 150W                                        |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          |                                             |                                             |                                             |                                             |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        |                                             |                                             |                                             |                                             |
| PARD (20MHz)                          | < 150mVpp                                           |                                             | < 100mVpp                                   | < 150mVpp                                   | < 100mVpp                                   |
| Hold-up Time                          | > 15ms @ 115Vac,<br>> 80ms @ 230Vac                 | > 15ms @ 115Vac, > 90ms @ 230Vac            |                                             |                                             | > 15ms @ 115Vac,<br>> 80ms @ 230Vac         |
| INPUT                                 |                                                     |                                             |                                             |                                             |                                             |
| Phase Input                           | Single Phase                                        |                                             |                                             |                                             |                                             |
| Input Voltage Range                   | 85-264Vac (DC input range 125-375Vdc) <sup>1)</sup> |                                             |                                             |                                             |                                             |
| Input Frequency                       | 47-63Hz                                             |                                             |                                             |                                             |                                             |
| Input Current                         | < 0.75A @ 115Vac,<br>< 0.50A @ 230Vac               | < 1.10A @ 115Vac,<br>< 0.70A @ 230Vac       | < 1.50A @ 115Vac,<br>< 1.00A @ 230Vac       | < 2.00A @ 115Vac,<br>< 1.10A @ 230Vac       | < 3.10A @ 115Vac,<br>< 2.00A @ 230Vac       |
| Efficiency <sup>2)</sup> at 100% Load | > 85.0% @ 115Vac &<br>230Vac                        | > 86.0% @ 115Vac & 230Vac                   |                                             |                                             | > 87.0% @ 115Vac,<br>> 88.0% @ 230Vac       |
| Max Inrush Current<br>(Cold Start)    | < 30A @ 115Vac, < 60A @ 230Vac                      |                                             | < 40A @ 115Vac,<br>< 80A @ 230Vac           | < 50A @ 115Vac,<br>< 100A @ 230Vac          | < 60A @ 115Vac,<br>< 120A @ 230Vac          |
| Power Factor                          | Conform to EN 61000-3-2                             |                                             |                                             |                                             | NA                                          |
| Leakage Current                       | < 1mA @ 240Vac                                      |                                             |                                             |                                             |                                             |
| MECHANICAL                            |                                                     |                                             |                                             |                                             |                                             |
| Case Cover / Chassis                  | Aluminium                                           |                                             |                                             |                                             |                                             |
| Dimensions (L × W × H)                | 128 × 97 × 38 mm<br>(5.04" × 3.82" × 1.50")         | 128 × 97 × 38 mm<br>(5.04" × 3.82" × 1.50") | 128 × 97 × 38 mm<br>(5.04" × 3.82" × 1.50") | 158 × 97 × 38 mm<br>(6.22" × 3.82" × 1.50") | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50") |
| Unit Weight                           | 0.24 kg (0.53 lb)                                   | 0.26 kg (0.57 lb)                           | 0.30 kg (0.66 lb)                           | 0.41 kg (0.90 lb)                           | 0.48 kg (1.06 lb)                           |
| Cooling System                        | Convection                                          |                                             |                                             |                                             |                                             |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                       | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                               |
| ENVIRONMENT                           |                                                     |                                             |                                             |                                             |                                             |
| Operating Temperature                 | -10°C to +70°C                                      |                                             |                                             |                                             |                                             |
| Storage Temperature                   | -25°C to +85°C                                      |                                             |                                             |                                             |                                             |
| Power De-rating                       | > 50°C (2.5% / °C)                                  |                                             |                                             |                                             |                                             |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                             |                                             |                                             |                                             |
| Operating Altitude                    | 0 to 3,000 m (0 to 9,840 ft)                        |                                             |                                             |                                             | 0 to 5,000 m<br>(0 to 16,400 ft)            |

#### Dimensions Reference



#### Notes

- 1) All models are certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# 24V Output



## PMC

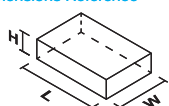
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Full corrosion resistant aluminium casing (except PMC-24V600W1BA)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55032, Class B
- Also available: IP20 and Front Face connectors

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMC-24V150W2AA                                       | PMC-24V150W1B□                                      | PMC-24V300W1BA                               | PMC-24V600W1BA                                      | PMC-DSPV100W1A                                      |
|---------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Output Voltage                        | 24V                                                  | 24V                                                 | V1: 24V, V2 SB: 12V                          | 24V                                                 | V1: 24V, V2: 5V                                     |
| Output Voltage Range                  | 22-28V                                               | 22-28V                                              | V1: 22-28V                                   | 21.6-26.4V                                          | V1: 22.8-26.4V                                      |
| Output Current                        | 0-6.25A                                              | 0-6.25A                                             | V1: 12.5A (0-12.5A)<br>V2 SB: 0.5A (0-0.5A)  | 0-25.0A (50.0A for 5s)                              | V1: 2.7A (0.3-4.0A)<br>V2: 7.0A (0.8-7.0A)          |
| Output Power                          | 150W                                                 | 150W                                                | 300W                                         | 600W (1,200W for 5s)                                | 100W                                                |
| Line Regulation                       | < 0.5% typ. (@ 170-264Vac input, 100% load)          | < 0.5% typ. (@ 85-264Vac input, 100% load)          | < 0.5% typ. (@ 85-264Vac input, 100% load)   |                                                     |                                                     |
| Load Regulation                       | < 1.0% typ. (@ 170-264Vac input, 0-100% load)        | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        | < 1.0% typ. (@ 85-264Vac input, 0-100% load) |                                                     |                                                     |
| PARD (20MHz)                          | < 100mVpp                                            |                                                     | V1: < 100mVpp,<br>V2: < 200mVpp              | < 180mVpp                                           | V1: < 200mVpp,<br>V2: < 80mVpp                      |
| Hold-up Time                          | > 20ms @ 230Vac                                      | > 30ms @ 115Vac & 230Vac                            | > 15ms @ nominal input, 100% load            | > 20ms @ 115Vac & 230Vac                            | > 15ms @ 115Vac,<br>> 80ms @ 230Vac                 |
| INPUT                                 |                                                      |                                                     |                                              |                                                     |                                                     |
| Phase Input                           | Single Phase                                         |                                                     |                                              |                                                     |                                                     |
| Input Voltage Range                   | 180-264Vac (DC input range 220-375Vdc) <sup>1)</sup> | 85-264Vac (DC input range 125-375Vdc) <sup>1)</sup> |                                              | 85-264Vac (DC input range 120-370Vdc) <sup>1)</sup> | 85-264Vac (DC input range 125-375Vdc) <sup>1)</sup> |
| Input Frequency                       | 47-63Hz                                              |                                                     |                                              |                                                     |                                                     |
| Input Current                         | < 1.6A @ 230Vac                                      | < 1.7A @ 115Vac,<br>< 1.0A @ 230Vac                 | < 4.0A @ 115Vac,<br>< 2.0A @ 230Vac          | < 6.5A @ 115Vac,<br>< 3.2A @ 230Vac                 | < 2.0A @ 115Vac,<br>< 1.1A @ 230Vac                 |
| Efficiency <sup>2)</sup> at 100% Load | > 87.0% @ 230Vac                                     | > 89.0% @ 115Vac,<br>> 91.0% @ 230Vac               | > 86.0% @ 115Vac,<br>> 88.0% @ 230Vac        | > 86.0% @ 115Vac,<br>> 89.0% @ 230Vac               | > 84.0% @ 115Vac,<br>> 86.0% @ 230Vac               |
| Max Inrush Current (Cold Start)       | < 120A @ 230Vac                                      | < 60A @ 115Vac,<br>< 120A @ 230Vac                  | < 35A @ 115Vac,<br>< 70A @ 230Vac            | < 20A @ 115Vac,<br>< 40A @ 230Vac                   | < 50A @ 115Vac,<br>< 100A @ 230Vac                  |
| Power Factor                          | Conform to EN 61000-3-2                              | > 0.99 @ 115Vac,<br>> 0.90 @ 230Vac                 | > 0.99 @ 115Vac,<br>> 0.97 @ 230Vac          | > 0.99 @ 115Vac,<br>> 0.94 @ 230Vac                 | Conform to EN 61000-3-2                             |
| Leakage Current                       | < 1mA @ 240Vac                                       |                                                     |                                              | < 1.5mA @ 240Vac                                    | < 1mA @ 240Vac                                      |
| MECHANICAL                            |                                                      |                                                     |                                              |                                                     |                                                     |
| Case Cover / Chassis                  | Aluminium                                            |                                                     |                                              | SECC Steel                                          | Aluminium                                           |
| Dimensions (L × W × H)                | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")          | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")         | 199 × 105 × 41 mm<br>(7.83" × 4.13" × 1.61") | 215 × 120 × 61 mm<br>(8.46" × 4.72" × 2.40")        | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")         |
| Unit Weight                           | 0.50 kg (1.10 lb)                                    | 0.54 kg (1.19 lb)                                   | 0.82 kg (1.81 lb)                            | 1.60 kg (3.53 lb)                                   | 0.52 kg (1.15 lb)                                   |
| Cooling System                        | Convection                                           |                                                     | Forced Air (Built-in Fan)                    |                                                     | Convection                                          |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                        | > 700,000 hrs                                       | > 700,000 hrs                                | > 300,000 hrs                                       | > 700,000 hrs                                       |
| ENVIRONMENT                           |                                                      |                                                     |                                              |                                                     |                                                     |
| Operating Temperature                 | -10°C to +70°C                                       |                                                     |                                              | -20°C to +70°C                                      | -10°C to +70°C                                      |
| Storage Temperature                   | -25°C to +85°C                                       |                                                     |                                              | -20°C to +75°C                                      | -25°C to +85°C                                      |
| Power De-rating                       | > 50°C (2.5% / °C)                                   |                                                     |                                              |                                                     |                                                     |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                         |                                                     |                                              |                                                     |                                                     |
| Operating Altitude                    | 0 to 3,000 m<br>(0 to 9,840 ft)                      | 0 to 5,000 m<br>(0 to 16,400 ft)                    | 0 to 3,000 m (0 to 9,840 ft)                 |                                                     |                                                     |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While PMC-24V150W2AA and PMC-DSPV100W1A are also certified for DC input.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation. For PMC-24V300W1BA and PMC-24V600W1BA models, MTBF calculations do not include fan life time.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMC Panel Mount Power Supply

## 48V Output



# PMC

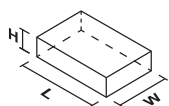
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power will not de-rate for the entire input voltage range
- Full corrosion resistant aluminium casing (except PMC-48V600W1BA)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55032, Class B

### GENERAL SPECIFICATIONS

|                                       |                                                     | NEW                                                 |
|---------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| OUTPUT                                | PMC-48V150W1BA                                      | PMC-48V600W1BA                                      |
| Output Voltage                        | 48V                                                 | 48V                                                 |
| Output Voltage Range                  | 44-53V                                              | 43.2-52.8V                                          |
| Output Current                        | 0-3.125A                                            | 0-12.5A                                             |
| Output Power                          | 150W                                                | 600W                                                |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          | < 192mV (@100-264Vac input, 100% load)              |
| Load Regulation                       | < 1.0% typ. (@ 85-264Vac input, 0-100% load)        | < 300mV (@100-264Vac input, 0-100% load)            |
| PARD (20MHz)                          | < 200mVpp                                           | < 360mVpp                                           |
| Hold-up Time                          | > 30ms @ 115Vac & 230Vac (100% load)                | > 20ms @ 115Vac & 230Vac (100% load)                |
| INPUT                                 |                                                     |                                                     |
| Phase Input                           | Single Phase                                        |                                                     |
| Input Voltage Range                   | 85-264Vac (DC input range 125-375Vdc) <sup>1)</sup> | 85-264Vac (DC input range 120-370Vdc) <sup>1)</sup> |
| Input Frequency                       | 47-63Hz                                             |                                                     |
| Input Current                         | < 1.7A @ 115Vac,<br>< 1.0A @ 230Vac                 | < 6.5A @ 115Vac,<br>< 3.2A @ 230Vac                 |
| Efficiency <sup>2)</sup> at 100% Load | > 89.0% @ 115Vac,<br>> 91.0% @ 230Vac               | > 87.0% @ 115Vac,<br>> 90.0% @ 230Vac               |
| Max Inrush Current (Cold Start)       | < 20A @ 115Vac,<br>< 40A @ 230Vac                   | < 20A @ 115Vac,<br>< 40A @ 230Vac                   |
| Power Factor                          | > 0.99 @ 115Vac,<br>> 0.92 @ 230Vac                 | > 0.98 @ 115Vac,<br>> 0.95 @ 230Vac                 |
| Leakage Current                       | < 1.5mA @ 240Vac                                    | < 1mA @ 240Vac                                      |
| MECHANICAL                            |                                                     |                                                     |
| Case Cover / Chassis                  | Aluminium                                           | SECC Steel                                          |
| Dimensions (L x W x H)                | 178 x 97 x 38 mm<br>(7.01" x 3.82" x 1.50")         | 215 x 120 x 61 mm<br>(8.46" x 4.72" x 2.4")         |
| Unit Weight                           | 0.53 kg (1.17 lb)                                   | 1.54 kg (3.40 lb)                                   |
| Cooling System                        | Convection                                          | Forced Air (Built-in Fan)                           |
| MTBF <sup>3)</sup>                    | > 700,000 hrs                                       | > 700,000 hrs                                       |
| ENVIRONMENT                           |                                                     |                                                     |
| Operating Temperature                 | -10°C to +70°C                                      | -20°C to +70°C                                      |
| Storage Temperature                   | -25°C to +85°C                                      | -40°C to +85°C                                      |
| Power De-rating                       | > 50°C (2.5% / °C)                                  |                                                     |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                                     |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                       | 0 to 3,000 m (0 to 9,840 ft)                        |

#### Dimensions Reference



#### Notes

- 1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation. For PMC-48V600W1BA, MTBF calculations do not include fan life time.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMH Panel Mount Power Supply

## 24V Output

# PMH



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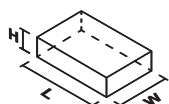
### HIGHLIGHTS & FEATURES

- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Universal AC input voltage range
- Full power from -20°C to +50°C operation
- Full corrosion resistant aluminium casing
- High MTBF > 700,000 hrs per Telcordia SR-332
- Also available: IP20, Front Face and Harness connectors

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMH-24V50WCA□                                             | PMH-24V100WCA□                                | PMH-24V100WCC□                              | PMH-24V100WCN□                               |
|---------------------------------------|-----------------------------------------------------------|-----------------------------------------------|---------------------------------------------|----------------------------------------------|
| Output Voltage                        | 24V                                                       | 24V                                           | 24V                                         | 24V                                          |
| Output Voltage Range                  | 22-28V                                                    | 22-28V                                        | 22-28V                                      | 22-24V                                       |
| Output Current                        | 0-2.1A                                                    | 0-4.16A                                       | 0-4.16A                                     | 0-3.8A                                       |
| Output Power                          | 50W                                                       | 100W                                          | 100W                                        | 91.2W                                        |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)                |                                               |                                             | < 1.0% typ. (@ 85-264Vac input, 100% load)   |
| Load Regulation                       | < 0.5% typ. (@ 85-264Vac input, 0-100% load)              | < 1.0% typ. (@ 85-264Vac input, 0-100% load)  |                                             | < 2.0% typ. (@ 85-264Vac input, 0-100% load) |
| PARD (20MHz) <sup>1)</sup>            | < 100mVpp @ -20°C to 70°C<br>< 150mVpp @ < -20°C to -30°C | < 100mVpp                                     |                                             |                                              |
| Hold-up Time                          | > 15ms @ 115Vac,<br>> 90ms @ 230Vac (100% load)           | > 15ms @ 115Vac, > 100ms @ 230Vac (100% load) |                                             |                                              |
| INPUT                                 |                                                           |                                               |                                             |                                              |
| Phase Input                           | Single Phase                                              |                                               |                                             |                                              |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>2)</sup>       |                                               |                                             |                                              |
| Input Frequency                       | 47-63Hz                                                   |                                               |                                             |                                              |
| Input Current                         | < 0.94A @ 115Vac,<br>< 0.59A @ 230Vac                     | < 1.90A @ 115Vac, < 1.10A @ 230Vac            |                                             | < 1.90A @ 115Vac,<br>< 1.00A @ 230Vac        |
| Efficiency <sup>3)</sup> at 100% Load | > 87.0% @ 115Vac,<br>> 88.0% @ 230Vac                     | > 87.0% @ 115Vac, > 89.0% @ 230Vac            |                                             | > 87.0% @ 115Vac,<br>> 88.5% @ 230Vac        |
| Max Inrush Current (Cold Start)       | < 35A @ 115Vac,<br>< 70A @ 230Vac                         | < 50A @ 115Vac, < 100A @ 230Vac               |                                             |                                              |
| Power Factor                          | Conform to EN 61000-3-2                                   |                                               |                                             |                                              |
| Leakage Current                       | < 0.5mA @ 264Vac                                          | < 1.2mA @ 240Vac                              | < 0.5mA @ 240Vac                            | < 0.75mA @ 264Vac                            |
| MECHANICAL                            |                                                           |                                               |                                             |                                              |
| Case Cover / Chassis                  | Aluminium                                                 |                                               |                                             |                                              |
| Dimensions (L × W × H)                | 98 × 97 × 38 mm<br>(3.86" × 3.82" × 1.50")                | 158 × 97 × 38 mm<br>(6.22" × 3.82" × 1.50")   | 158 × 97 × 38 mm<br>(6.22" × 3.82" × 1.50") | 158 × 97 × 38 mm<br>(6.22" × 3.82" × 1.50")  |
| Unit Weight                           | 0.21 kg (0.46 lb)                                         | 0.43 kg (0.95 lb)                             | 0.43 kg (0.95 lb)                           | 0.43 kg (0.95 lb)                            |
| Cooling System                        | Convection                                                |                                               |                                             |                                              |
| MTBF <sup>4)</sup>                    | > 700,000 hrs                                             | > 700,000 hrs                                 | > 700,000 hrs                               | > 700,000 hrs                                |
| ENVIRONMENT                           |                                                           |                                               |                                             |                                              |
| Operating Temperature                 | -30°C to +70°C                                            |                                               |                                             |                                              |
| Storage Temperature                   | -30°C to +85°C                                            |                                               |                                             |                                              |
| Power De-rating                       | < -20°C (2% / °C), > 50°C (2.5% / °C)                     |                                               |                                             |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                              |                                               |                                             |                                              |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                             |                                               |                                             |                                              |

#### Dimensions Reference



#### Notes

- PARD is measured with an AC coupling mode, 5cm wires, and in parallel with 0.1µF ceramic capacitor & 47µF electrolytic capacitor.
- All models are certified for DC input.
- At 25°C ambient temperature by vertical mounting orientation.
- MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMH Panel Mount Power Supply

## 24V Output



# PMH

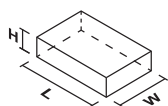
### HIGHLIGHTS & FEATURES

- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Universal AC input voltage range
- Full power from -20°C to +50°C operation (except PMH-24V200WCB□)
- Full corrosion resistant aluminium casing
- High MTBF > 700,000 hrs per Telcordia SR-332
- Also available: IP20, Front Face and Harness connectors

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMH-24V150WCB□                                      | PMH-24V150WCD□                              | PMH-24V200WCB□                                            |
|---------------------------------------|-----------------------------------------------------|---------------------------------------------|-----------------------------------------------------------|
| Output Voltage                        | 24V                                                 | 24V                                         | 24V                                                       |
| Output Voltage Range                  | 22-28V                                              | 22-28V                                      | 22-28V                                                    |
| Output Current                        | 0-6.25A                                             | 0-6.25A                                     | 0-8.33A                                                   |
| Output Power                          | 150W                                                | 150W                                        | 200W                                                      |
| Line Regulation                       | < 0.5% typ. (@ 85-264Vac input, 100% load)          |                                             |                                                           |
| Load Regulation                       | < 0.5% typ. (@ 85-264Vac input, 0-100% load)        |                                             |                                                           |
| PARD (20MHz) <sup>1)</sup>            | < 100mVpp                                           |                                             | < 100mVpp @ -20°C to 70°C<br>< 240mVpp @ < -20°C to -30°C |
| Hold-up Time                          | > 40ms @ 115Vac, > 50ms @ 230Vac (100% load)        |                                             | > 20ms @ 115Vac & 230Vac (100% load)                      |
| INPUT                                 |                                                     |                                             |                                                           |
| Phase Input                           | Single Phase                                        |                                             |                                                           |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>2)</sup> |                                             |                                                           |
| Input Frequency                       | 47-63Hz                                             |                                             |                                                           |
| Input Current                         | < 1.6A @ 115Vac, < 0.9A @ 230Vac                    |                                             | < 2.2A @ 115Vac,<br>< 1.2A @ 230Vac                       |
| Efficiency <sup>3)</sup> at 100% Load | > 89.0% @ 115Vac, > 90.5% @ 230Vac                  |                                             | > 89.5% @ 115Vac,<br>> 91.5% @ 230Vac                     |
| Max Inrush Current (Cold Start)       | < 30A @ 115Vac, < 60A @ 230Vac                      |                                             | < 60A @ 115Vac,<br>< 120A @ 230Vac                        |
| Power Factor                          | > 0.98 @ 115Vac, > 0.89 @ 230Vac                    |                                             | > 0.98 @ 115Vac,<br>> 0.92 @ 230Vac                       |
| Leakage Current                       | < 1.2mA @ 240Vac                                    | < 0.75mA @ 240Vac                           | < 1mA @ 264Vac                                            |
| MECHANICAL                            |                                                     |                                             |                                                           |
| Case Cover / Chassis                  | Aluminium                                           |                                             |                                                           |
| Dimensions (L × W × H)                | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")         | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50") | 190 × 97 × 38 mm<br>(7.48" × 3.82" × 1.50")               |
| Unit Weight                           | 0.56 kg (1.23 lb)                                   | 0.56 kg (1.23 lb)                           | 0.61 kg (1.34 lb)                                         |
| Cooling System                        | Convection                                          |                                             |                                                           |
| MTBF <sup>4)</sup>                    | > 700,000 hrs                                       | > 700,000 hrs                               | > 700,000 hrs                                             |
| ENVIRONMENT                           |                                                     |                                             |                                                           |
| Operating Temperature                 | -30°C to +70°C                                      |                                             |                                                           |
| Storage Temperature                   | -30°C to +85°C                                      |                                             |                                                           |
| Power De-rating                       | < -20°C (2% / °C), > 50°C (2.5% / °C)               |                                             | < -20°C (2% / °C),<br>> 45°C (2% / °C)                    |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                        |                                             |                                                           |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                       |                                             |                                                           |

#### Dimensions Reference



#### Notes

- 1) PARD is measured with an AC coupling mode, 5cm wires, and in parallel with 0.1µF ceramic capacitor & 47µF electrolytic capacitor.
- 2) All models fulfill the test conditions of this range. DC input safety approval can be obtained upon request.
- 3) At 25°C ambient temperature by vertical mounting orientation.
- 4) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

## PMH - Low Profile



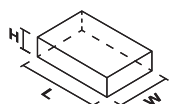
### HIGHLIGHTS & FEATURES

- Household appliance approvals for pollution degree 3 to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Universal AC input voltage range
- Full corrosion resistant aluminium casing
- Low profile design for 1U installation
- Low earth leakage current < 0.75mA
- No load input power consumption < 0.5W @ 230Vac
- Full power from -25°C to +50°C operation @ 5,000 m or 16,400 ft altitude
- Also available: IP20, Front Face and Harness connectors

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMH-12V100WCL□                                                     | PMH-24V100WCL□                                | PMH-24V100WCM□                              | PMH-24V150WCL□                                |
|---------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------------------|
| Output Voltage                        | 12V                                                                | 24V                                           | 24V                                         | 24V                                           |
| Output Voltage Range                  | 12-14V                                                             | 24-28V                                        | 22-24V                                      | 24-28V                                        |
| Output Current                        | 0-8.5A                                                             | 0-4.5A                                        | 0-3.8A                                      | 0-6.5A                                        |
| Output Power                          | 102W                                                               | 108W                                          | 91.2W                                       | 156W                                          |
| Line Regulation                       | < 1.0% typ. (@ 100-264Vac input, 100% load)                        | < 0.5% typ. (@ 100-264Vac input, 100% load)   |                                             |                                               |
| Load Regulation                       | < 2.0% typ. (@ 100-264Vac input, 0-100% load)                      | < 1.0% typ. (@ 100-264Vac input, 0-100% load) |                                             | < 0.5% typ. (@ 100-264Vac input, 0-100% load) |
| PARD (20MHz) <sup>1)</sup>            | < 120mVpp                                                          | < 150mVpp                                     |                                             | < 200mVpp                                     |
| Hold-up Time                          | > 5ms @ 115Vac,<br>> 50ms @ 230Vac (100% load)                     | > 10ms @ 115Vac, > 50ms @ 230Vac (100% load)  |                                             |                                               |
| INPUT                                 |                                                                    |                                               |                                             |                                               |
| Phase Input                           | Single Phase                                                       |                                               |                                             |                                               |
| Input Voltage Range                   | 85-264Vac (DC input range 120-375Vdc) <sup>2)</sup>                |                                               |                                             |                                               |
| Input Frequency                       | 47-63Hz                                                            |                                               |                                             |                                               |
| Input Current                         | < 1.9A @ 115Vac, < 1.2A @ 230Vac                                   |                                               |                                             | < 2.8A @ 115Vac,<br>< 1.6A @ 230Vac           |
| Efficiency <sup>3)</sup> at 100% Load | > 83.0% @ 115Vac,<br>> 85.0% @ 230Vac                              | > 86.0% @ 115Vac, > 88.0% @ 230Vac            |                                             | > 87.0% @ 115Vac,<br>> 89.0% @ 230Vac         |
| Max Inrush Current (Cold Start)       | < 30A @ 115Vac,<br>< 60A @ 230Vac                                  | < 25A @ 115Vac, < 50A @ 230Vac                |                                             | < 40A @ 115Vac,<br>< 80A @ 230Vac             |
| Power Factor                          | Conform to EN 61000-3-2                                            |                                               |                                             |                                               |
| Leakage Current                       | < 0.75mA @ 240Vac                                                  |                                               |                                             |                                               |
| MECHANICAL                            |                                                                    |                                               |                                             |                                               |
| Case Cover / Chassis                  | Aluminium                                                          |                                               |                                             |                                               |
| Dimensions (L × W × H)                | 129 × 97 × 30 mm<br>(5.08" × 3.82" × 1.18")                        | 129 × 97 × 30 mm<br>(5.08" × 3.82" × 1.18")   | 129 × 97 × 30 mm<br>(5.08" × 3.82" × 1.18") | 159 × 97 × 30 mm<br>(6.26" × 3.82" × 1.18")   |
| Unit Weight                           | 0.31 kg (0.68 lb)                                                  | 0.31 kg (0.68 lb)                             | 0.31 kg (0.68 lb)                           | 0.41 kg (0.90 lb)                             |
| Cooling System                        | Convection                                                         |                                               |                                             |                                               |
| MTBF <sup>4)</sup>                    | > 700,000 hrs                                                      | > 700,000 hrs                                 | > 700,000 hrs                               | > 700,000 hrs                                 |
| ENVIRONMENT                           |                                                                    |                                               |                                             |                                               |
| Operating Temperature                 | -30°C to +70°C                                                     |                                               |                                             |                                               |
| Storage Temperature                   | -40°C to +85°C                                                     |                                               |                                             |                                               |
| Power De-rating                       | 120Vac: < -25°C (5% / °C)<br>120Vac and 240Vac: > 50°C (2.0% / °C) |                                               |                                             |                                               |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                       |                                               |                                             |                                               |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                                      |                                               |                                             |                                               |

#### Dimensions Reference



#### Notes

- PARD is measured with an AC coupling mode, 5cm wires, and in parallel with 0.1µF ceramic capacitor & 47µF electrolytic capacitor.
- All models fulfill the test conditions of this range. DC input safety approval can be obtained upon request.
- At 25°C ambient temperature by vertical mounting orientation.
- MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# PMF Panel Mount Power Supply

## 4.2V, 5V, 24V Output



AR

# PMF

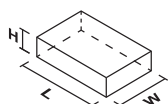
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Built-in active PFC and automatic fan speed control
- Full corrosion resistant aluminium casing
- Conforms to harmonic current IEC/EN 61000-3-2, Class D
- Remote ON/OFF is available as an option
- Short Circuit / Overvoltage / Overcurrent / Over Temperature Protections

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMF-4V320WC□□                                | PMF-5V320WC□□                                | PMF-24V200WC□□                              | PMF-24V240WC□□                              | PMF-24V320WC□□                               |
|---------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|
| Output Voltage                        | 4.2V                                         | 5V                                           | 24V                                         | 24V                                         | 24V                                          |
| Output Voltage Range                  | 3.78-4.62V                                   | 4.50-5.50V                                   | 21.6-26.4V                                  | 21.6-26.4V                                  | 21.6-26.4V                                   |
| Output Current                        | 55.0A                                        | 55.0A                                        | 8.4A                                        | 10.0A                                       | 13.3A                                        |
| Output Power                          | 231W                                         | 275W                                         | 201.6W                                      | 240W                                        | 320W                                         |
| Line Regulation                       | < 0.5%                                       |                                              |                                             |                                             |                                              |
| Load Regulation                       | < 1.5%                                       | < 1.0%                                       | < 0.5%                                      |                                             | < 1%                                         |
| PARD (20MHz)                          | < 150mVpp                                    |                                              |                                             |                                             |                                              |
| Hold-up Time                          | 16ms typ. @ 115Vac & 230Vac                  |                                              | 20ms typ. @ 115Vac & 230Vac                 |                                             |                                              |
| INPUT                                 |                                              |                                              |                                             |                                             |                                              |
| Phase Input                           | Single Phase                                 |                                              |                                             |                                             |                                              |
| Input Voltage Range                   | 85-264Vac                                    |                                              |                                             |                                             |                                              |
| Input Frequency                       | 47-63Hz                                      |                                              |                                             |                                             |                                              |
| Input Current                         | 5.0A typ. @ 115Vac,<br>2.5A typ. @ 230Vac    | 5.0A typ. @ 115Vac,<br>2.5A typ. @ 230Vac    | 3.5A typ. @ 115Vac,<br>1.7A typ. @ 230Vac   | 3.6A typ. @ 115Vac,<br>1.8A typ. @ 230Vac   | 5.0A typ. @ 115Vac,<br>2.5A typ. @ 230Vac    |
| Efficiency <sup>1)</sup> at 100% Load | 76.5% typ. @ 230Vac                          | 78.5% typ. @ 230Vac                          | 87.0% typ. @ 230Vac                         |                                             |                                              |
| Max Inrush Current<br>(Cold Start)    | 20A typ. @ 115Vac, 40A typ. @ 230Vac         |                                              | 30A typ. @ 115Vac,<br>50A typ. @ 230Vac     | 30A typ. @ 115Vac,<br>60A typ. @ 230Vac     | 20A typ. @ 115Vac,<br>40A typ. @ 230Vac      |
| Power Factor                          | 0.97 typ. @ 115Vac,<br>0.94 typ. @ 230Vac    | 0.98 typ. @ 115Vac,<br>0.95 typ. @ 230Vac    | 0.98 typ. @ 115Vac,<br>0.95 typ. @ 230Vac   | 0.99 typ. @ 115Vac,<br>0.95 typ. @ 230Vac   | 0.98 typ. @ 115Vac,<br>0.95 typ. @ 230Vac    |
| Leakage Current                       | < 1mA @ 240Vac                               |                                              | < 0.5mA @ 240Vac                            |                                             | < 1mA @ 240Vac                               |
| MECHANICAL                            |                                              |                                              |                                             |                                             |                                              |
| Case Cover / Chassis                  | Aluminium                                    |                                              |                                             |                                             |                                              |
| Dimensions (L × W × H)                | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") | 190 × 93 × 50 mm<br>(7.48" × 3.66" × 1.97") | 190 × 93 × 50 mm<br>(7.48" × 3.66" × 1.97") | 215 × 115 × 50 mm<br>(8.46" × 4.53" × 1.97") |
| Unit Weight                           | 0.86 kg (1.90 lb)                            | 0.86 kg (1.90 lb)                            | 0.66 kg (1.46 lb)                           | 0.66 kg (1.46 lb)                           | 0.84 kg (1.85 lb)                            |
| Cooling System                        | Forced Air (Built-in Fan)                    |                                              |                                             |                                             |                                              |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                               | > 700,000 hrs                               | > 700,000 hrs                                |
| ENVIRONMENT                           |                                              |                                              |                                             |                                             |                                              |
| Operating Temperature                 | -10°C to +70°C                               |                                              |                                             |                                             |                                              |
| Storage Temperature                   | -20°C to +85°C                               |                                              |                                             |                                             |                                              |
| Power De-rating                       | > 55°C (3.33% / °C)                          |                                              | > 50°C (2.5% / °C)                          |                                             |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                              |                                             |                                             |                                              |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                |                                              |                                             |                                             |                                              |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C). MTBF calculations do not include fan life time.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMR Panel Mount Power Supply

## 4.2V Output



## PMR

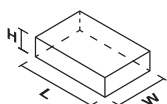
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Full corrosion resistant aluminium casing
- Built-in active PFC and conforms to harmonic current IEC/EN 61000-3-2, Class A and Class D
- Low profile design for 1U installation
- Built-in DC OK relay contact and redundancy operation (PMR-4V320WDBA and PMR-4V320WDCA)

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMR-4V320WC□A                                | PMR-4V320WDAA                                | PMR-4V320WDGA                                | PMR-4V320WDBA                                | PMR-4V320WDCA                                |
|---------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| Output Voltage                        | 4.2V                                         | 4.2V                                         | 4.2V                                         | 4.2V                                         | 4.2V                                         |
| Output Voltage Range                  | 3.78-4.62V                                   | 3.78-4.62V                                   | 3.78-4.62V                                   | 3.99-4.51V<br>(No potentiometer)             | 3.99-4.51V<br>(No potentiometer)             |
| Output Current                        | 60.0A                                        | 60.0A                                        | 60.0A                                        | 60.0A                                        | 60.0A                                        |
| Output Power                          | 252W                                         | 252W                                         | 252W                                         | 252W                                         | 252W                                         |
| Line Regulation                       | < 0.5%                                       |                                              |                                              |                                              |                                              |
| Load Regulation                       | < 1.0%                                       |                                              |                                              | NA                                           |                                              |
| PARD (20MHz)                          | < 150mVpp                                    |                                              |                                              |                                              |                                              |
| Hold-up Time                          | 8ms typ.                                     |                                              |                                              |                                              |                                              |
| INPUT                                 |                                              |                                              |                                              |                                              |                                              |
| Phase Input                           | Single Phase                                 |                                              |                                              |                                              |                                              |
| Input Voltage Range                   | 88-264Vac                                    |                                              |                                              |                                              |                                              |
| Input Frequency                       | 47-63Hz                                      |                                              |                                              |                                              |                                              |
| Input Current                         | 3.0A typ. @ 115Vac,<br>1.5A typ. @ 230Vac    | 4.5A typ. @ 115Vac, 2.5A typ. @ 230Vac       |                                              |                                              |                                              |
| Efficiency <sup>1)</sup> at 100% Load | 80.5% typ. @ 115Vac,<br>83.5% typ. @ 230Vac  | 84.5% typ. @ 115Vac, 86.5% typ. @ 230Vac     |                                              | 84.0% typ. @ 115Vac, 86.0% typ. @ 230Vac     |                                              |
| Max Inrush Current<br>(Cold Start)    | 20A typ. @ 115Vac, 40A typ. @ 230Vac         |                                              |                                              |                                              |                                              |
| Power Factor                          | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac       |                                              |                                              |                                              |                                              |
| Leakage Current                       | < 0.5mA @ 240Vac                             | < 1mA @ 240Vac                               |                                              |                                              |                                              |
| MECHANICAL                            |                                              |                                              |                                              |                                              |                                              |
| Case Cover / Chassis                  | Aluminium                                    |                                              |                                              |                                              |                                              |
| Dimensions (L × W × H)                | 215 × 115 × 30 mm<br>(8.46" × 4.53" × 1.18") | 215 × 115 × 30 mm<br>(8.46" × 4.53" × 1.18") | 215 × 115 × 30 mm<br>(8.46" × 4.53" × 1.18") | 215 × 115 × 30 mm<br>(8.46" × 4.53" × 1.18") | 215 × 115 × 30 mm<br>(8.46" × 4.53" × 1.18") |
| Unit Weight                           | 0.76 kg (1.68 lb)                            | 0.86 kg (1.90 lb)                            | 0.86 kg (1.90 lb)                            | 0.86 kg (1.90 lb)                            | 0.86 kg (1.90 lb)                            |
| Cooling System                        | Forced Air (Built-in Fan)                    | Convection                                   |                                              |                                              |                                              |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                |
| ENVIRONMENT                           |                                              |                                              |                                              |                                              |                                              |
| Operating Temperature                 | -10°C to +70°C                               | -20°C to +70°C                               |                                              |                                              |                                              |
| Storage Temperature                   | -40°C to +85°C                               |                                              |                                              |                                              |                                              |
| Power De-rating                       | > 50°C (2.5% / °C)                           | > 40°C (1% / °C), > 50°C (1.5% / °C)         |                                              |                                              |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                              |                                              |                                              |                                              |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                |                                              |                                              |                                              |                                              |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C). For PMR-4V320WC□A, MTBF calculation does not include fan life time.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMR Panel Mount Power Supply

## 5V Output



## PMR

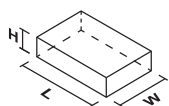
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Full corrosion resistant aluminium casing
- Built-in active PFC and conforms to harmonic current IEC/EN 61000-3-2, Class A and Class D
- Low profile design for 1U installation
- Built-in DC OK relay contact and redundancy operation (PMR-5V320WDBA and PMR-5V320WDCA)

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMR-5V320WC□A                                | PMR-5V320WDAA                                | PMR-5V320WDGA                                | PMR-5V320WDBA                                | PMR-5V320WDCA                                |
|---------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| Output Voltage                        | 5V                                           | 5V                                           | 5V                                           | 5V                                           | 5V                                           |
| Output Voltage Range                  | 4.50-5.50V                                   | 4.50-5.50V                                   | 4.50V-5.50V                                  | 4.75-5.25V<br>(No potentiometer)             | 4.75-5.25V<br>(No potentiometer)             |
| Output Current                        | 60.0A                                        | 60.0A                                        | 60.0A                                        | 60.0A                                        | 60.0A                                        |
| Output Power                          | 300W                                         | 300W                                         | 300W                                         | 300W                                         | 300W                                         |
| Line Regulation                       | < 0.5%                                       |                                              |                                              |                                              |                                              |
| Load Regulation                       | < 1.0%                                       |                                              |                                              | NA                                           |                                              |
| PARD (20MHz)                          | < 150mVpp                                    |                                              |                                              |                                              |                                              |
| Hold-up Time                          | 8ms typ.                                     |                                              |                                              |                                              |                                              |
| INPUT                                 |                                              |                                              |                                              |                                              |                                              |
| Phase Input                           | Single Phase                                 |                                              |                                              |                                              |                                              |
| Input Voltage Range                   | 88-264Vac                                    |                                              |                                              |                                              |                                              |
| Input Frequency                       | 47-63Hz                                      |                                              |                                              |                                              |                                              |
| Input Current                         | 4.5A typ. @ 115Vac,<br>2.5A typ. @ 230Vac    | 5.0A typ. @ 115Vac, 2.5A typ. @ 230Vac       |                                              |                                              |                                              |
| Efficiency <sup>1)</sup> at 100% Load | 81.0% typ. @ 115Vac,<br>84.0% typ. @ 230Vac  | 86.0% typ. @ 115Vac, 88.0% typ. @ 230Vac     |                                              | 85.0% typ. @ 115Vac, 87.0% typ. @ 230Vac     |                                              |
| Max Inrush Current<br>(Cold Start)    | 20A typ. @ 115Vac, 40A typ. @ 230Vac         |                                              |                                              |                                              |                                              |
| Power Factor                          | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac       |                                              |                                              |                                              |                                              |
| Leakage Current                       | < 0.5mA @ 240Vac                             | < 1mA @ 240Vac                               |                                              |                                              |                                              |
| MECHANICAL                            |                                              |                                              |                                              |                                              |                                              |
| Case Cover / Chassis                  | Aluminium                                    |                                              |                                              |                                              |                                              |
| Dimensions (L x W x H)                | 215 x 115 x 30 mm<br>(8.46" x 4.53" x 1.18") | 215 x 115 x 30 mm<br>(8.46" x 4.53" x 1.18") | 215 x 115 x 30 mm<br>(8.46" x 4.53" x 1.18") | 215 x 115 x 30 mm<br>(8.46" x 4.53" x 1.18") | 215 x 115 x 30 mm<br>(8.46" x 4.53" x 1.18") |
| Unit Weight                           | 0.76 kg (1.68 lb)                            | 0.86 kg (1.90 lb)                            | 0.86 kg (1.90 lb)                            | 0.86 kg (1.90 lb)                            | 0.86 kg (1.90 lb)                            |
| Cooling System                        | Forced Air (Built-in Fan)                    | Convection                                   |                                              |                                              |                                              |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                | > 700,000 hrs                                |
| ENVIRONMENT                           |                                              |                                              |                                              |                                              |                                              |
| Operating Temperature                 | -10°C to +70°C                               | -20°C to +70°C                               |                                              |                                              |                                              |
| Storage Temperature                   | -40°C to +85°C                               |                                              |                                              |                                              |                                              |
| Power De-rating                       | > 50°C (2.5% / °C)                           | > 40°C (1% / °C), > 50°C (1.5% / °C)         |                                              |                                              |                                              |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                              |                                              |                                              |                                              |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                |                                              |                                              |                                              |                                              |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C). For PMR-5V320WC□A, MTBF calculation does not include fan life time.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PMU Panel Mount Power Supply

## 13.8V, 27.6V Output

## PMU



AR

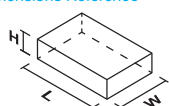
### HIGHLIGHTS & FEATURES

- AC input voltage range selectable by switch
- LED indicators for DC OK (Green) and Battery Reverse Polarity Connection (Red)
- Zero switch over time from loss of AC to battery operation
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs. per Telcordia SR-332
- Monitoring signals for AC OK, DC OK and Battery Low indication
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections

### GENERAL SPECIFICATIONS

| OUTPUT                                | PMU-13V155W□BA                                                                                                            | PMU-13V155W□CA                              | PMU-27V155W□BA                                                                                                                          | PMU-27V155W□CA                                                                                                                          |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Output Voltage                        | V1: 13.8V, B+: 13.3V                                                                                                      | V1: 13.8V, B+: 13.3V                        | V1: 27.6V, B+: 27.1V                                                                                                                    | V1: 27.6V, B+: 27.1V                                                                                                                    |
| Output Voltage Range                  | 12-14V                                                                                                                    | 12-14V                                      | 24-28V                                                                                                                                  | 24-28V                                                                                                                                  |
| Output Current                        | V1: 9.5A (0-11.0A)<br>B+: 1.5A (0.5-1.5A)                                                                                 | V1: 9.5A (0-11.0A)<br>B+: 1.5A (0.5-1.5A)   | <u>PMU-27V155WCBA</u><br>V1: 4.0A (0-5.5A)<br>B+: 1.5A (0.5-1.5A)<br><u>PMU-27V155WLBA</u><br>V1: 4.3A (0-5.5A)<br>B+: 1.2A (0.50-1.2A) | <u>PMU-27V155WCCA</u><br>V1: 4.0A (0-5.5A)<br>B+: 1.5A (0.5-1.5A)<br><u>PMU-27V155WLCA</u><br>V1: 4.3A (0-5.5A)<br>B+: 1.2A (0.50-1.2A) |
| Output Power                          | 151W                                                                                                                      | 151W                                        | 151W                                                                                                                                    | 151W                                                                                                                                    |
| Line Regulation                       | < 0.5% (90-132Vac @ 90% load,180-264Vac @ 100% load)                                                                      |                                             |                                                                                                                                         |                                                                                                                                         |
| Load Regulation                       | < 1.0% (90-132Vac @ 0-90% load,180-264Vac @ 0-100% load)                                                                  |                                             |                                                                                                                                         |                                                                                                                                         |
| PARD (20MHz)                          | < 150mVpp @ 0°C to -20°C,<br>< 100mVpp @ > 0°C to 70°C                                                                    |                                             |                                                                                                                                         |                                                                                                                                         |
| Hold-up Time                          | 20ms without Battery at B+                                                                                                |                                             |                                                                                                                                         |                                                                                                                                         |
| INPUT                                 |                                                                                                                           |                                             |                                                                                                                                         |                                                                                                                                         |
| Phase Input                           | Single Phase                                                                                                              |                                             |                                                                                                                                         |                                                                                                                                         |
| Input Voltage Range                   | 90-132Vac, 180-264Vac (Selectable by Switch)                                                                              |                                             |                                                                                                                                         |                                                                                                                                         |
| Input Frequency                       | 47-63Hz                                                                                                                   |                                             |                                                                                                                                         |                                                                                                                                         |
| Input Current                         | < 2.5A @ 115Vac, < 1.5A @ 230Vac                                                                                          |                                             |                                                                                                                                         |                                                                                                                                         |
| Efficiency <sup>1)</sup> at 100% Load | > 85.0% @ 115Vac, > 86.0% @ 230Vac                                                                                        |                                             | > 88.0% @ 115Vac, > 89.0% @ 230vac                                                                                                      |                                                                                                                                         |
| Max Inrush Current (Cold Start)       | < 25A @ 115Vac & 230Vac                                                                                                   |                                             |                                                                                                                                         |                                                                                                                                         |
| Power Factor                          | Conform to EN 61000-3-2                                                                                                   |                                             |                                                                                                                                         |                                                                                                                                         |
| Leakage Current                       | < 0.5mA @ 264Vac                                                                                                          |                                             |                                                                                                                                         |                                                                                                                                         |
| MECHANICAL                            |                                                                                                                           |                                             |                                                                                                                                         |                                                                                                                                         |
| Case Cover / Chassis                  | SGCC / Aluminium                                                                                                          |                                             |                                                                                                                                         |                                                                                                                                         |
| Dimensions (L × W × H)                | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")                                                                               | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50") | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")                                                                                             | 178 × 97 × 38 mm<br>(7.01" × 3.82" × 1.50")                                                                                             |
| Unit Weight                           | 0.59 kg (1.30 lb)                                                                                                         | 0.60 kg (1.32 lb)                           | 0.59 kg (1.30 lb)                                                                                                                       | 0.60 kg (1.32 lb)                                                                                                                       |
| Cooling System                        | Convection                                                                                                                |                                             |                                                                                                                                         |                                                                                                                                         |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                                                                                             | > 700,000 hrs                               | > 700,000 hrs                                                                                                                           | > 700,000 hrs                                                                                                                           |
| ENVIRONMENT                           |                                                                                                                           |                                             |                                                                                                                                         |                                                                                                                                         |
| Operating Temperature                 | -20°C to +70°C                                                                                                            |                                             |                                                                                                                                         |                                                                                                                                         |
| Storage Temperature                   | -40°C to +85°C                                                                                                            |                                             |                                                                                                                                         |                                                                                                                                         |
| Power De-rating                       | 90-132Vac: < 0°C to -20°C (2.25% / °C), > 50°C (2.25% / °C)<br>180-264Vac: < 0°C to -20°C (2.5% / °C), > 50°C (2.5% / °C) |                                             |                                                                                                                                         |                                                                                                                                         |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                                                              |                                             |                                                                                                                                         |                                                                                                                                         |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                                                                                             |                                             |                                                                                                                                         |                                                                                                                                         |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature by vertical mounting orientation.
- 2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load) for vertical mounting orientation.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Delta Industrial Power Supplies

## Open Frame Power Supply



AR

### PJT



- Universal AC input voltage range
- Standard industrial footprint
- Low Leakage Current
- Convection cooled operating temperature range from -10°C to +70°C
- High MTBF > 700,000 hrs as per Telcordia SR-332
- Multiple connector sources options (JWT, JST, Molex)

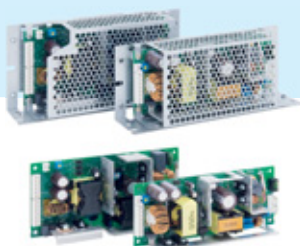


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### PJ



- Universal AC input voltage range
- High PF > 0.97 (for 50W and above)
- Low Inrush Current / Low Leakage Current
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Long life capacitors

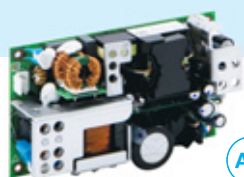


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### PJB



- Universal AC input voltage range
- Power Boost of 200% for 10 seconds
- High PF > 0.97
- Low Inrush Current / Low Leakage Current
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models



AR

### PJH



- Household appliance approval to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Available for Class I or Class II (double isolation) configuration with universal AC input voltage range
- 300W with fan cooled and up to 240W convection cooled
- Standard industrial footprint of 3" x 5"
- Built-in active PFC, remote On/Off, remote sense, power good signal
- No load input power consumption < 0.5W and low earth leakage current < 0.75mA
- Extreme low temperature cold start at -40°C



AR

### PJU



- Universal AC input voltage range
- Zero switch over time from loss of AC to battery operation
- Protection against reverse polarity battery connection
- Built-in diagnostic monitoring for AC OK and Battery Low status
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections
- Built-in over current and short circuit protection in Buffering (battery discharging) mode operation





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## MDS

- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Power Good Signal, Remote Sense, Remote inhibit
- 2 × MOPP isolation



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## MEP

- Safety approvals to medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Low leakage current (< 70μA Normal & < 210μA Single Fault)
- Over-Voltage/Load/Temperature & Short Circuit protections
- 3 million hours MTBF
- 2 × MOPP isolation



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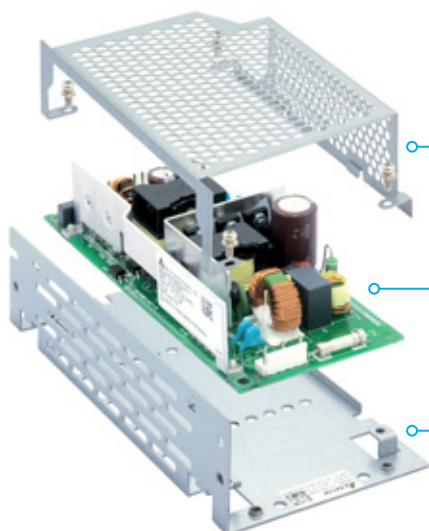
## MEU

- Universal AC input
- Up to 500K hours MTBF
- 2 × MOPP isolation
- Safety approvals to medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Over-Voltage/Load/Temperature & Short Circuit protections



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## Configuration Options



Enclosed

Open Frame

L Frame

For the PJ series, PJB series and PJU series, metal chassis and case cover are available as options for different installation preferences.

# PJT Open Frame Power Supply

## 12V Output

# PJT

### HIGHLIGHTS & FEATURES

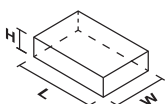
- Universal AC input voltage range
- Small standard footprint
- Low Leakage Current < 0.1mA
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs. as per Telcordia SR-332
- Short Circuit / Overvoltage / Overcurrent / Over Temperature Protections



### GENERAL SPECIFICATIONS

| OUTPUT                                | PJT-12V40WBA□                                    | PJT-12V65WBA□                                   | PJT-12V100WBA□                                | PJT-12V100WBB□                                                 |
|---------------------------------------|--------------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|
| Output Voltage                        | 12V                                              | 12V                                             | 12V                                           | 12V                                                            |
| Output Current                        | 3.33A                                            | 5.0A                                            | 8.33A                                         | 6.67A (Convection)<br>8.33A (Forced Air)                       |
| Output Power                          | 40W                                              | 60W                                             | 100W                                          | 80W (Convection)<br>100W (Forced Air)                          |
| Line Regulation                       | < 0.5%                                           |                                                 |                                               |                                                                |
| Load Regulation                       | < 1.0%                                           |                                                 |                                               |                                                                |
| PARD (20MHZ)                          | < 120mVpp                                        |                                                 |                                               |                                                                |
| Hold-up Time                          | 18ms typ. @ 115Vac,<br>90ms typ. @ 230Vac        | 16ms typ. @ 115Vac,<br>80ms typ. @ 230Vac       | 20ms typ. @ 115Vac & 230Vac                   | 10ms typ. @ 115Vac % 230Vac                                    |
| INPUT                                 |                                                  |                                                 |                                               |                                                                |
| Phase Input                           | Single Phase                                     |                                                 |                                               |                                                                |
| Input Voltage Range                   | 90-264Vac                                        |                                                 |                                               |                                                                |
| Input Frequency                       | 47-63Hz                                          |                                                 |                                               |                                                                |
| Input Current                         | 0.85A typ. @ 115Vac                              | 1.50A typ. @ 115Vac                             |                                               | 2.50A typ. @ 115Vac                                            |
| Efficiency <sup>1)</sup> at 100% Load | 85.0% typ. @ 115Vac,<br>86.0% typ. @ 230Vac      | 86.0% typ. @ 115Vac,<br>86.5% typ. @ 230Vac     | 86.5% typ. @ 115Vac & 230Vac                  | 86.0% typ. @ 115Vac,<br>88.0% typ. @ 230Vac                    |
| Max Inrush Current<br>(Cold Start)    | 30A typ. @ 115Vac, 60A typ. @ 230Vac             |                                                 |                                               |                                                                |
| Power Factor                          | Conform to EN 61000-3-2                          |                                                 |                                               |                                                                |
| Leakage Current                       | < 0.1mA @ 240Vac                                 |                                                 |                                               |                                                                |
| MECHANICAL                            |                                                  |                                                 |                                               |                                                                |
| Case Cover / Chassis                  | -                                                |                                                 |                                               |                                                                |
| Dimensions (L × W × H)                | 76.2 × 50.8 × 22.9 mm<br>(3.00" × 2.00" × 0.90") | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25")              |
| Unit Weight                           | 0.08 kg (0.18 lb)                                | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                              |
| Cooling System                        | Convection                                       |                                                 |                                               | Convection / Forced Air                                        |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                    | > 700,000 hrs                                   | > 700,000 hrs                                 | > 700,000 hrs                                                  |
| ENVIRONMENT                           |                                                  |                                                 |                                               |                                                                |
| Operating Temperature                 | -10°C to +70°C                                   |                                                 |                                               |                                                                |
| Storage Temperature                   | -40°C to +85°C                                   |                                                 |                                               |                                                                |
| Power De-rating                       | > 50°C (2.5% / °C)                               |                                                 |                                               | Convection: > 50°C (2% / °C)<br>Forced Air: > 50°C (2.5% / °C) |
| Operating Humidity                    | 10 to 95% RH (Non-Condensing)                    |                                                 |                                               |                                                                |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                    |                                                 |                                               |                                                                |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 15V Output

## PJT

### HIGHLIGHTS & FEATURES

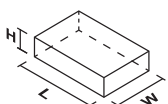
- Universal AC input voltage range
- Small standard footprint
- Low Leakage Current < 0.1mA
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs. as per Telcordia SR-332
- Short Circuit / Overvoltage / Overcurrent / Over Temperature Protections



### GENERAL SPECIFICATIONS

| OUTPUT                                | PJT-15V40WBA□                                    | PJT-15V65WBA□                                   | PJT-15V100WBA□                                | PJT-15V100WBB□                                                 |
|---------------------------------------|--------------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|
| Output Voltage                        | 15V                                              | 15V                                             | 15V                                           | 15V                                                            |
| Output Current                        | 2.67A                                            | 4.2A                                            | 6.67A                                         | 5.33A (Convection)<br>6.67A (Forced Air)                       |
| Output Power                          | 40W                                              | 63W                                             | 100W                                          | 80W (Convection)<br>100W (Forced Air)                          |
| Line Regulation                       | < 0.5%                                           |                                                 |                                               |                                                                |
| Load Regulation                       | < 1.0%                                           |                                                 |                                               |                                                                |
| PARD (20MHz)                          | < 150mVpp                                        |                                                 |                                               |                                                                |
| Hold-up Time                          | 18ms typ. @ 115Vac,<br>90ms typ. @ 230Vac        | 16ms typ. @ 115Vac,<br>80ms typ. @ 230Vac       | 20ms typ. @ 115Vac % 230Vac                   | 10ms typ. @ 115Vac & 230Vac                                    |
| INPUT                                 |                                                  |                                                 |                                               |                                                                |
| Phase Input                           | Single Phase                                     |                                                 |                                               |                                                                |
| Input Voltage Range                   | 90-264Vac                                        |                                                 |                                               |                                                                |
| Input Frequency                       | 47-63Hz                                          |                                                 |                                               |                                                                |
| Input Current                         | 0.85A typ. @ 115Vac                              | 1.50A typ. @ 115Vac                             |                                               | 2.50A typ. @ 115Vac                                            |
| Efficiency <sup>1)</sup> at 100% Load | 86.0% typ. @ 115Vac,<br>87.0% typ. @ 230Vac      | 87.0% typ. @ 115Vac,<br>88.5% typ. @ 230Vac     | 87.5% typ. @ 115Vac & 230Vac                  | 87.0% typ. @ 115Vac,<br>89.0% typ. @ 230Vac                    |
| Max Inrush Current<br>(Cold Start)    | 30A typ. @ 115Vac, 60A typ. @ 230Vac             |                                                 |                                               |                                                                |
| Power Factor                          | Conform to EN 61000-3-2                          |                                                 |                                               |                                                                |
| Leakage Current                       | < 0.1mA @ 240Vac                                 |                                                 |                                               |                                                                |
| MECHANICAL                            |                                                  |                                                 |                                               |                                                                |
| Case Cover / Chassis                  | -                                                |                                                 |                                               |                                                                |
| Dimensions (L × W × H)                | 76.2 × 50.8 × 22.9 mm<br>(3.00" × 2.00" × 0.90") | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25")              |
| Unit Weight                           | 0.08 kg (0.18 lb)                                | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                              |
| Cooling System                        | Convection                                       |                                                 |                                               | Convection / Forced Air                                        |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                    | > 700,000 hrs                                   | > 700,000 hrs                                 | > 700,000 hrs                                                  |
| ENVIRONMENT                           |                                                  |                                                 |                                               |                                                                |
| Operating Temperature                 | -10°C to +70°C                                   |                                                 |                                               |                                                                |
| Storage Temperature                   | -40°C to +85°C                                   |                                                 |                                               |                                                                |
| Power De-rating                       | > 50°C (2.5% / °C)                               |                                                 |                                               | Convection: > 50°C (2% / °C)<br>Forced Air: > 50°C (2.5% / °C) |
| Operating Humidity                    | 10 to 95% RH (Non-Condensing)                    |                                                 |                                               |                                                                |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                    |                                                 |                                               |                                                                |

Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PJT Open Frame Power Supply

## 18V Output

# PJT

### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Small standard footprint
- Low Leakage Current < 0.1mA
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs. as per Telcordia SR-332
- Short Circuit / Overvoltage / Overcurrent / Over Temperature Protections

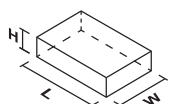


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### GENERAL SPECIFICATIONS

| OUTPUT                                | PJT-18V40WBA□                                    | PJT-18V65WBA□                                   | PJT-18V100WBA□                                | PJT-18V100WBB□                                                 |
|---------------------------------------|--------------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|
| Output Voltage                        | 18V                                              | 18V                                             | 18V                                           | 18V                                                            |
| Output Current                        | 2.22A                                            | 3.61A                                           | 5.55A                                         | 4.44A (Convection)<br>5.55A (Forced Air)                       |
| Output Power                          | 40W                                              | 65W                                             | 100W                                          | 80W (Convection)<br>100W (Forced Air)                          |
| Line Regulation                       | < 0.5%                                           |                                                 |                                               |                                                                |
| Load Regulation                       | < 1.0%                                           |                                                 |                                               |                                                                |
| PARD (20MHz)                          | < 180mVpp                                        |                                                 |                                               |                                                                |
| Hold-up Time                          | 18ms typ. @ 115Vac,<br>90ms typ. @ 230Vac        | 16ms typ. @ 115Vac,<br>80ms typ. @ 230Vac       | 20ms typ. @ 115Vac & 230Vac                   | 10ms typ. @ 115Vac & 230Vac                                    |
| INPUT                                 |                                                  |                                                 |                                               |                                                                |
| Phase Input                           | Single Phase                                     |                                                 |                                               |                                                                |
| Input Voltage Range                   | 90-264Vac                                        |                                                 |                                               |                                                                |
| Input Frequency                       | 47-63Hz                                          |                                                 |                                               |                                                                |
| Input Current                         | 0.85A typ. @ 115Vac                              | 1.50A typ. @ 115Vac                             |                                               | 2.50A typ. @ 115Vac                                            |
| Efficiency <sup>1)</sup> at 100% Load | 86.0% typ. @ 115Vac & 230Vac                     | 87.0% typ. @ 115Vac,<br>88.0% typ. @ 230Vac     | 87.5% typ. @ 115Vac & 230Vac                  | 87.0% typ. @ 115Vac,<br>89.0% typ. @ 230Vac                    |
| Max Inrush Current<br>(Cold Start)    | 30A typ. @ 115Vac, 60A typ. @ 230Vac             |                                                 |                                               |                                                                |
| Power Factor                          | Conform to EN 61000-3-2                          |                                                 |                                               |                                                                |
| Leakage Current                       | < 0.1mA @ 240Vac                                 |                                                 |                                               |                                                                |
| MECHANICAL                            |                                                  |                                                 |                                               |                                                                |
| Case Cover / Chassis                  | -                                                |                                                 |                                               |                                                                |
| Dimensions (L × W × H)                | 76.2 × 50.8 × 22.9 mm<br>(3.00" × 2.00" × 0.90") | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25")              |
| Unit Weight                           | 0.08 kg (0.18 lb)                                | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                              |
| Cooling System                        | Convection                                       |                                                 |                                               | Convection / Forced Air                                        |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                    | > 700,000 hrs                                   | > 700,000 hrs                                 | > 700,000 hrs                                                  |
| ENVIRONMENT                           |                                                  |                                                 |                                               |                                                                |
| Operating Temperature                 | -10°C to +70°C                                   |                                                 |                                               |                                                                |
| Storage Temperature                   | -40°C to +85°C                                   |                                                 |                                               |                                                                |
| Power De-rating                       | > 50°C (2.5% / °C)                               |                                                 |                                               | Convection: > 50°C (2% / °C)<br>Forced Air: > 50°C (2.5% / °C) |
| Operating Humidity                    | 10 to 95% RH (Non-Condensing)                    |                                                 |                                               |                                                                |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                    |                                                 |                                               |                                                                |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V, 27V Output

## PJT

### HIGHLIGHTS & FEATURES

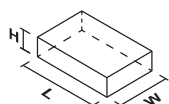
- Universal AC input voltage range
- Small standard footprint
- Low Leakage Current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs. as per Telcordia SR-332
- Short Circuit / Overvoltage / Overcurrent / Over Temperature Protections



### GENERAL SPECIFICATIONS

| OUTPUT                                | PJT-24V40WBA□                                                                                                                                                     | PJT-24V65WBA□                                   | PJT-24V100WBA□                                | PJT-24V100WBB□                                    | PJT-27V150WBNA                                  |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-------------------------------------------------|
| Output Voltage                        | 24V                                                                                                                                                               | 24V                                             | 24V                                           | 24V                                               | V1: 27V, V <sub>SB</sub> : 12V                  |
| Output Current                        | 1.66A                                                                                                                                                             | 2.71A                                           | 4.17A                                         | 3.33A (Convection)<br>4.17A (Forced Air)          | V1: 5.55A<br>V <sub>SB</sub> : 0.5A             |
| Output Power                          | 40W                                                                                                                                                               | 65W                                             | 100W                                          | 80W (Convection)<br>100W (Forced Air)             | V1: 150W<br>V <sub>SB</sub> : 6W                |
| Line Regulation                       | < 0.5%                                                                                                                                                            |                                                 |                                               |                                                   | < 0.5% (@ 90-264Vac input, 100% load)           |
| Load Regulation                       | < 1.0%                                                                                                                                                            |                                                 |                                               |                                                   | < 1.0% (@ 90-264Vac input, 0-100% load)         |
| PARD (20MHz)                          | < 240mVpp                                                                                                                                                         |                                                 |                                               |                                                   | V1: < 150mVpp,<br>V <sub>SB</sub> : < 75mVpp    |
| Hold-up Time                          | 18ms typ. @ 115Vac,<br>90ms typ. @ 230Vac                                                                                                                         | 16ms typ. @ 115Vac,<br>80ms typ. @ 230Vac       | 20ms typ. @ 115Vac &<br>230Vac                | 10ms typ. @ 115Vac &<br>230Vac                    | > 40ms @ 115Vac &<br>230Vac                     |
| INPUT                                 |                                                                                                                                                                   |                                                 |                                               |                                                   |                                                 |
| Phase Input                           | Single Phase                                                                                                                                                      |                                                 |                                               |                                                   |                                                 |
| Input Voltage Range                   | 90-264Vac                                                                                                                                                         |                                                 |                                               |                                                   | 85-264Vac                                       |
| Input Frequency                       | 47-63Hz                                                                                                                                                           |                                                 |                                               |                                                   |                                                 |
| Input Current                         | 0.85A typ. @ 115Vac                                                                                                                                               | 1.50A typ. @ 115Vac                             |                                               | 2.50A typ. @ 115Vac                               | < 1.80A @ 115Vac,<br>< 0.90A @ 230Vac           |
| Efficiency <sup>1)</sup> at 100% Load | 86.0% typ. @ 115Vac,<br>87.0% typ. @ 230Vac                                                                                                                       | 87.0% typ. @ 115Vac &<br>230Vac                 | 88.0% typ. @ 115Vac &<br>230Vac               | 88.0% typ. @ 115Vac,<br>89.0% typ. @ 230Vac       | > 88.5% @ 115Vac,<br>> 89.5% @ 230Vac           |
| Max Inrush Current (Cold Start)       | 30A typ. @ 115Vac, 60A typ. @ 230Vac                                                                                                                              |                                                 |                                               |                                                   | < 50A @ 115Vac,<br>< 100A @ 230Vac              |
| Power Factor                          | Conform to EN 61000-3-2                                                                                                                                           |                                                 |                                               |                                                   | > 0.99 @ 115Vac,<br>> 0.93 @ 230Vac             |
| Leakage Current                       | < 0.1mA @ 240Vac                                                                                                                                                  |                                                 |                                               |                                                   | < 0.25mA @ 264Vac                               |
| MECHANICAL                            |                                                                                                                                                                   |                                                 |                                               |                                                   |                                                 |
| Case Cover / Chassis                  | -                                                                                                                                                                 |                                                 |                                               |                                                   |                                                 |
| Dimensions (L × W × H)                | 76.2 × 50.8 × 22.9 mm<br>(3.00" × 2.00" × 0.90")                                                                                                                  | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25") | 127 × 76.2 × 36.5 mm<br>(5.00" × 3.00" × 1.44") |
| Unit Weight                           | 0.08 kg (0.18 lb)                                                                                                                                                 | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                 | 0.37 kg (0.82 lb)                               |
| Cooling System                        | Convection                                                                                                                                                        |                                                 |                                               | Convection / Forced Air                           | Convection                                      |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                                                                                                                                     | > 700,000 hrs                                   | > 700,000 hrs                                 | > 700,000 hrs                                     | > 700,000 hrs                                   |
| ENVIRONMENT                           |                                                                                                                                                                   |                                                 |                                               |                                                   |                                                 |
| Operating Temperature                 | -10°C to +70°C                                                                                                                                                    |                                                 |                                               |                                                   |                                                 |
| Storage Temperature                   | -40°C to +85°C                                                                                                                                                    |                                                 |                                               |                                                   |                                                 |
| Power De-rating                       | PJT-24V40WBA□, PJT-24V65WBA□, PJT-24V100WBA□, PJT-27V150WBNA□: > 50°C (2.5% / °C)<br>PJT-24V100WBB□: Convection: > 50°C (2% / °C); Forced Air: > 50°C (2.5% / °C) |                                                 |                                               |                                                   |                                                 |
| Operating Humidity                    | 10 to 95% RH (Non-Condensing); PJT-27V150WBNA: 5 to 95% RH (Non-Condensing)                                                                                       |                                                 |                                               |                                                   |                                                 |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                                                                                                                                     |                                                 |                                               |                                                   |                                                 |

Dimensions Reference



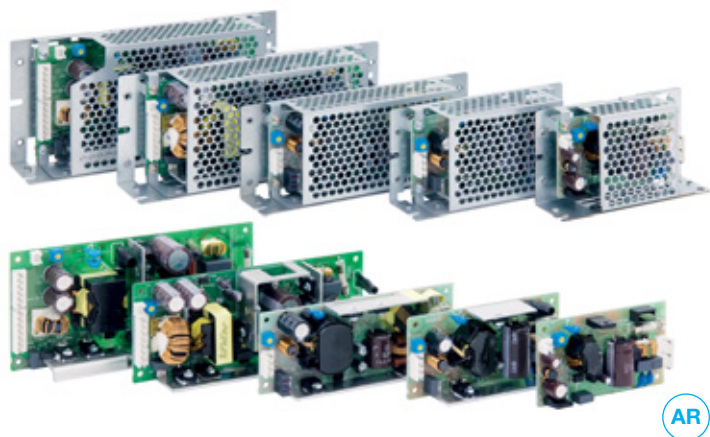
#### Notes

- 1) At 25°C ambient temperature.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# PJ Open Frame Power Supply

## 12V Output



# PJ

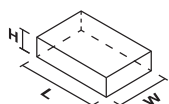
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- High PF > 0.97 (for 50W and above)
- Low Inrush Current / Low Leakage Current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A; Class A and Class D for 50W and above
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Long life capacitors

### GENERAL SPECIFICATIONS

| OUTPUT                                | PJ-12V15W□□A                                 | PJ-12V30W□□A                                  | PJ-12V50W□□A                                  | PJ-12V100W□□A                                 | PJ-12V150W□□A                               |
|---------------------------------------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------------|
| Output Voltage                        | 12V                                          | 12V                                           | 12V                                           | 12V                                           | 12V                                         |
| Output Voltage Range                  | 10.8-13.2V                                   | 10.8-13.2V                                    | 10.8-13.2V                                    | 10.8-13.2V                                    | 10.8-13.2V                                  |
| Output Current                        | 1.3A                                         | 2.5A                                          | 4.3A                                          | 8.5A                                          | 12.5A                                       |
| Output Power                          | 15.6W                                        | 30W                                           | 51.6W                                         | 102W                                          | 150W                                        |
| Line Regulation                       | < 48mV                                       |                                               |                                               |                                               |                                             |
| Load Regulation                       | < 100mV                                      |                                               |                                               |                                               |                                             |
| PARD (20MHz)                          | < 150mVpp                                    |                                               |                                               |                                               |                                             |
| Hold-up Time                          | 20ms typ. @ 100Vac                           |                                               |                                               |                                               |                                             |
| INPUT                                 |                                              |                                               |                                               |                                               |                                             |
| Phase Input                           | Single Phase                                 |                                               |                                               |                                               |                                             |
| Input Voltage Range                   | 85-264Vac                                    |                                               |                                               |                                               |                                             |
| Input Frequency                       | 47-63Hz                                      |                                               |                                               |                                               |                                             |
| Input Current                         | 0.35A typ. @ 100Vac,<br>0.20A typ. @ 200Vac  | 0.65A typ. @ 100Vac,<br>0.35A typ. @ 200Vac   | 0.65A typ. @ 100Vac,<br>0.35A typ. @ 200Vac   | 1.30A typ. @ 100Vac,<br>0.65A typ. @ 200Vac   | 1.90A typ. @ 100Vac,<br>0.95A typ. @ 200Vac |
| Efficiency <sup>1)</sup> at 100% Load | 81.0% typ. @ 100Vac,<br>82.5% typ. @ 200Vac  | 83.0% typ. @ 100Vac,<br>85.0% typ. @ 200Vac   | 83.0% typ. @ 100Vac,<br>85.0% typ. @ 200Vac   | 85.0% typ. @ 100Vac,<br>87.5% typ. @ 200Vac   | 88.0% typ. @ 100Vac,<br>91.0% typ. @ 200Vac |
| Max Inrush Current<br>(Cold Start)    | 15A typ. @ 100Vac, 30A typ. @ 200Vac         |                                               |                                               |                                               |                                             |
| Power Factor                          | Conform to EN 61000-3-2                      |                                               | 0.98 typ. @ 100Vac,<br>0.97 typ. @ 200Vac     | 0.99 typ. @ 100Vac,<br>0.98 typ. @ 200Vac     | 0.99 typ. @ 100Vac,<br>0.97 typ. @ 200Vac   |
| Leakage Current                       | < 0.1mA @ 100Vac, < 0.2mA @ 240Vac           |                                               |                                               | < 0.2mA @ 100Vac, < 0.4mA @ 240Vac            |                                             |
| MECHANICAL                            |                                              |                                               |                                               |                                               |                                             |
| Case Cover / Chassis                  | SGCC                                         |                                               |                                               |                                               |                                             |
| Dimensions (L × W × H) <sup>2)</sup>  | 87.5 × 50 × 22 mm<br>(3.44" × 1.97" × 0.87") | 105 × 50 × 25.6 mm<br>(4.13" × 1.97" × 1.01") | 132 × 50 × 26.6 mm<br>(5.20" × 1.97" × 1.05") | 155 × 62 × 33.5 mm<br>(6.10" × 2.44" × 1.32") | 160 × 75 × 37 mm<br>(6.30" × 2.95" × 1.46") |
| Unit Weight <sup>2)</sup>             | 0.06 kg (0.13 lb)                            | 0.11 kg (0.24 lb)                             | 0.16 kg (0.35 lb)                             | 0.26 kg (0.57 lb)                             | 0.30 kg (0.66 lb)                           |
| Cooling System                        | Convection                                   |                                               |                                               |                                               |                                             |
| MTBF <sup>3)</sup>                    | > 200,000 hrs                                | > 200,000 hrs                                 | > 200,000 hrs                                 | > 200,000 hrs                                 | > 200,000 hrs                               |
| ENVIRONMENT                           |                                              |                                               |                                               |                                               |                                             |
| Operating Temperature                 | -10°C to +70°C                               |                                               |                                               |                                               |                                             |
| Storage Temperature                   | -25°C to +75°C                               |                                               |                                               |                                               |                                             |
| Power De-rating <sup>2)</sup>         | > 50°C (2.5% / °C)                           |                                               |                                               |                                               | > 50°C (2% / °C)                            |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                 |                                               |                                               |                                               |                                             |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                |                                               |                                               |                                               |                                             |

Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) Open Frame (without chassis and cover).
- 3) MTBF as per JEITA RCR-9102B.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V Output

# PJ

## HIGHLIGHTS & FEATURES

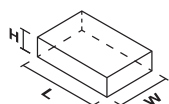
- Universal AC input voltage range
- High PF > 0.97 (for 50W and above)
- Low Inrush Current / Low Leakage Current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A; Class A and Class D for 50W and above
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Long life capacitors

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## GENERAL SPECIFICATIONS

| OUTPUT                                | PJ-24V30W□□A                                  | PJ-24V50W□□A                                  | PJ-24V100W□□A                                 | PJ-24V150W□□A                               |
|---------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------------|
| Output Voltage                        | 24V                                           | 24V                                           | 24V                                           | 24V                                         |
| Output Voltage Range                  | 21.6-26.4V                                    | 21.6-26.4V                                    | 21.6-26.4V                                    | 21.6-26.4V                                  |
| Output Current                        | 1.3A                                          | 2.1A                                          | 4.3A                                          | 6.3A                                        |
| Output Power                          | 31.2W                                         | 50.4W                                         | 103.2W                                        | 150W                                        |
| Line Regulation                       | < 96mV                                        |                                               |                                               |                                             |
| Load Regulation                       | < 150mV                                       |                                               |                                               |                                             |
| PARD (20MHz)                          | < 150mVpp                                     |                                               |                                               |                                             |
| Hold-up Time                          | 20ms typ. @ 100Vac                            |                                               |                                               |                                             |
| INPUT                                 |                                               |                                               |                                               |                                             |
| Phase Input                           | Single Phase                                  |                                               |                                               |                                             |
| Input Voltage Range                   | 85-264Vac                                     |                                               |                                               |                                             |
| Input Frequency                       | 47-63Hz                                       |                                               |                                               |                                             |
| Input Current                         | 0.65A typ. @ 100Vac,<br>0.35A typ. @ 200Vac   | 0.65A typ. @ 100Vac,<br>0.35A typ. @ 200Vac   | 1.30A typ. @ 100Vac,<br>0.65A typ. @ 200Vac   | 1.90A typ. @ 100Vac,<br>0.95A typ. @ 200Vac |
| Efficiency <sup>1)</sup> at 100% Load | 85.0% typ. @ 100Vac,<br>86.0% typ. @ 200Vac   | 84.5% typ. @ 100Vac,<br>87.0% typ. @ 200Vac   | 86.0% typ. @ 100Vac,<br>89.0% typ. @ 200Vac   | 88.0% typ. @ 100Vac,<br>91.0% typ. @ 200Vac |
| Max Inrush Current<br>(Cold Start)    | 15A typ. @ 100Vac, 30A typ. @ 200Vac          |                                               |                                               |                                             |
| Power Factor                          | Conform to EN 61000-3-2                       | 0.98 typ. @ 100Vac,<br>0.97 typ. @ 200Vac     | 0.99 typ. @ 100Vac,<br>0.98 typ. @ 200Vac     | 0.99 typ. @ 100Vac,<br>0.97 typ. @ 200Vac   |
| Leakage Current                       | < 0.1mA @ 100Vac, < 0.2mA @ 240Vac            |                                               | < 0.2mA @ 100Vac, < 0.4mA @ 240Vac            |                                             |
| MECHANICAL                            |                                               |                                               |                                               |                                             |
| Case Cover / Chassis                  | SGCC                                          |                                               |                                               |                                             |
| Dimensions (L × W × H) <sup>2)</sup>  | 105 × 50 × 25.6 mm<br>(4.13" × 1.97" × 1.01") | 132 × 50 × 26.6 mm<br>(5.20" × 1.97" × 1.05") | 155 × 62 × 33.5 mm<br>(6.10" × 2.44" × 1.32") | 160 × 75 × 37 mm<br>(6.30" × 2.95" × 1.46") |
| Unit Weight <sup>2)</sup>             | 0.11 kg (0.24 lb)                             | 0.16 kg (0.35 lb)                             | 0.26 kg (0.57 lb)                             | 0.29 kg (0.64 lb)                           |
| Cooling System                        | Convection                                    |                                               |                                               |                                             |
| MTBF <sup>3)</sup>                    | > 200,000 hrs                                 | > 200,000 hrs                                 | > 200,000 hrs                                 | > 200,000 hrs                               |
| ENVIRONMENT                           |                                               |                                               |                                               |                                             |
| Operating Temperature                 | -10°C to +70°C                                |                                               |                                               |                                             |
| Storage Temperature                   | -25°C to +75°C                                |                                               |                                               |                                             |
| Power De-rating <sup>2)</sup>         | > 50°C (2.5% / °C)                            |                                               |                                               | > 50°C (2% / °C)                            |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                  |                                               |                                               |                                             |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                 |                                               |                                               |                                             |

Dimensions Reference

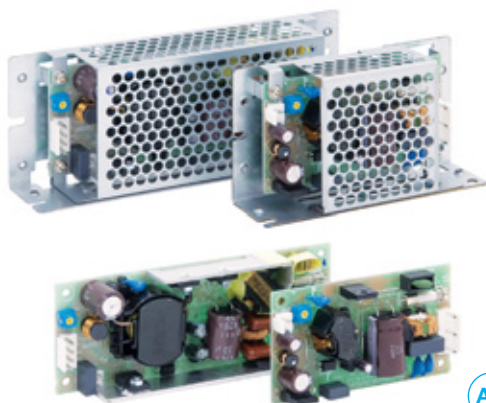


### Notes

- 1) At 25°C ambient temperature.
- 2) Open Frame (without chassis and cover).
- 3) MTBF as per JEITA RCR-9102B.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PJ Open Frame Power Supply

## 5V, 48V Output



# PJ

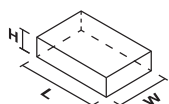
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- High PF > 0.97 (for 50W)
- Low Inrush Current / Low Leakage Current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A; Class A and Class D for 50W
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Long life capacitors

### GENERAL SPECIFICATIONS

| OUTPUT                                | PJ-5V15W□□A                                 | PJ-48V50W□□A                                  |
|---------------------------------------|---------------------------------------------|-----------------------------------------------|
| Output Voltage                        | 5V                                          | 48V                                           |
| Output Voltage Range                  | 4.50-5.50V                                  | 43.2-52.8V                                    |
| Output Current                        | 3.0A                                        | 1.1A                                          |
| Output Power                          | 15W                                         | 52.8W                                         |
| Line Regulation                       | < 20mV                                      | < 192mV                                       |
| Load Regulation                       | < 40mV                                      | < 240mV                                       |
| PARD (20MHz)                          | < 120mVpp                                   | < 250mVpp                                     |
| Hold-up Time                          | 20ms typ. @ 100Vac                          |                                               |
| INPUT                                 |                                             |                                               |
| Phase Input                           | Single Phase                                |                                               |
| Input Voltage Range                   | 85-264Vac                                   |                                               |
| Input Frequency                       | 47-63Hz                                     |                                               |
| Input Current                         | 0.35A typ. @ 100Vac,<br>0.20A typ. @ 200Vac | 0.65A typ. @ 100Vac,<br>0.35A typ. @ 200Vac   |
| Efficiency <sup>1)</sup> at 100% Load | 78.0% typ. @ 100Vac,<br>79.5% typ. @ 200Vac | 83.0% typ. @ 100Vac,<br>85.0% typ. @ 200Vac   |
| Max Inrush Current<br>(Cold Start)    | 15A typ. @ 100Vac, 30A typ. @ 200Vac        |                                               |
| Power Factor                          | Conform to EN 61000-3-2                     | 0.98 typ. @ 100Vac,<br>0.97 typ. @ 200Vac     |
| Leakage Current                       | < 0.1mA @ 100Vac, < 0.2mA @ 240Vac          |                                               |
| MECHANICAL                            |                                             |                                               |
| Case Cover / Chassis                  | SGCC                                        |                                               |
| Dimensions (L × W × H) <sup>2)</sup>  | 87.5 × 50 × 22 mm<br>(3.44" × 1.97"× 0.87") | 132 × 50 × 26.6 mm<br>(5.20" × 1.97" × 1.05") |
| Unit Weight <sup>2)</sup>             | 0.06 kg (0.13 lb)                           | 0.16 kg (0.35 lb)                             |
| Cooling System                        | Convection                                  |                                               |
| MTBF <sup>3)</sup>                    | > 200,000 hrs                               | > 200,000 hrs                                 |
| ENVIRONMENT                           |                                             |                                               |
| Operating Temperature                 | -10°C to +70°C                              |                                               |
| Storage Temperature                   | -25°C to +75°C                              |                                               |
| Power De-rating <sup>2)</sup>         | > 50°C (2.5% / °C)                          |                                               |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                |                                               |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)               |                                               |

Dimensions Reference

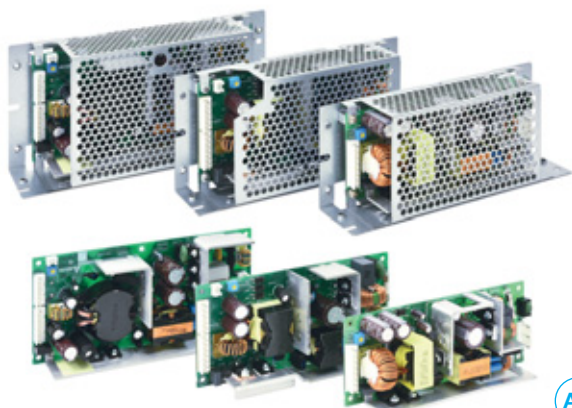


#### Notes

- 1) At 25°C ambient temperature.
- 2) Open Frame (without chassis and cover).
- 3) MTBF as per JEITA RCR-9102B.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PJB Open Frame Power Supply

## 24V Output



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# PJB

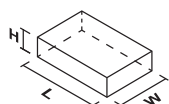
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Power Boost of 200% for 10 seconds
- High PF > 0.97
- Low Inrush Current / Low Leakage Current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models

### GENERAL SPECIFICATIONS

| OUTPUT                                | PJB-24V100W□□A                                | PJB-24V150W□□A                              | PJB-24V240W□□A                                                                              |
|---------------------------------------|-----------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------|
| Output Voltage                        | 24V                                           | 24V                                         | 24V                                                                                         |
| Output Voltage Range                  | 21.6-26.4V                                    | 21.6-26.4V                                  | 21.6-26.4V                                                                                  |
| Output Current                        | 4.3A (8.6A for 10s)                           | 6.3A (12.6A for 10s)                        | 10.0A (20.0A for 10s)                                                                       |
| Output Power                          | 103.2W (206.4W for 10s)                       | 151.2W (302.4W for 10s)                     | 240W (480W for 10s)                                                                         |
| Line Regulation                       | < 96mV                                        |                                             |                                                                                             |
| Load Regulation                       | < 150mV                                       |                                             |                                                                                             |
| PARD (20MHz)                          | < 150mVpp                                     |                                             |                                                                                             |
| Hold-up Time                          | 20ms typ. @ 100Vac                            |                                             |                                                                                             |
| INPUT                                 |                                               |                                             |                                                                                             |
| Phase Input                           | Single Phase                                  |                                             |                                                                                             |
| Input Voltage Range                   | 85-264Vac                                     |                                             |                                                                                             |
| Input Frequency                       | 47-63Hz                                       |                                             |                                                                                             |
| Input Current                         | 1.30A typ. @ 100Vac,<br>0.65A typ. @ 200Vac   | 1.90A typ. @ 100Vac,<br>0.95A typ. @ 200Vac | 2.80A typ. @ 100Vac,<br>1.50A typ. @ 200Vac                                                 |
| Efficiency <sup>1)</sup> at 100% Load | 86.5% typ. @ 100Vac,<br>89.0% typ. @ 200Vac   | 88.0% typ. @ 100Vac,<br>90.5% typ. @ 200Vac | 91.0% typ. @ 100Vac,<br>92.5% typ. @ 200Vac                                                 |
| Max Inrush Current (Cold Start)       | 15A typ. @ 100Vac, 30A typ. @ 200Vac          |                                             |                                                                                             |
| Power Factor                          | 0.98 typ. @ 100Vac,<br>0.97 typ. @ 200Vac     | 0.98 typ. @ 100Vac,<br>0.95 typ. @ 200Vac   | 0.98 typ. @ 100Vac,<br>0.97 typ. @ 200Vac                                                   |
| Leakage Current                       | < 0.2mA @ 100Vac, < 0.4mA @ 240Vac            |                                             |                                                                                             |
| MECHANICAL                            |                                               |                                             |                                                                                             |
| Case Cover / Chassis                  | SGCC                                          |                                             |                                                                                             |
| Dimensions (L × W × H) <sup>2)</sup>  | 155 × 62 × 33.5 mm<br>(6.10" × 2.44" × 1.32") | 160 × 75 × 37 mm<br>(6.30" × 2.95" × 1.46") | 180 × 84 × 42 mm<br>(7.09" × 3.31" × 1.65")                                                 |
| Unit Weight <sup>2)</sup>             | 0.26 kg (0.57 lb)                             | 0.31 kg (0.68 lb)                           | 0.44 kg (0.97 lb)                                                                           |
| Cooling System                        | Convection                                    |                                             |                                                                                             |
| MTBF <sup>3)</sup>                    | > 200,000 hrs                                 | > 200,000 hrs                               | > 200,000 hrs                                                                               |
| ENVIRONMENT                           |                                               |                                             |                                                                                             |
| Operating Temperature                 | -10°C to +70°C                                |                                             |                                                                                             |
| Storage Temperature                   | -25°C to +75°C                                |                                             |                                                                                             |
| Power De-rating <sup>2)</sup>         | > 50°C (2.5% / °C)                            | > 50°C (2% / °C)                            |                                                                                             |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                  |                                             |                                                                                             |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                 |                                             | ITE Application: 0 to 5,000 m (0 to 16,400 ft)<br>PSE Class 1: 0 to 2,000 m (0 to 6,560 ft) |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) Open Frame (without chassis and cover).
- 3) MTBF as per JEITA RCR-9102B.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

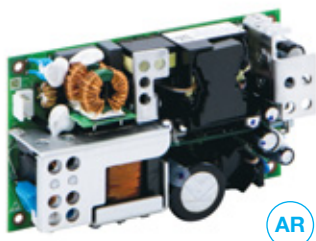
# PJH Open Frame Power Supply

## 24V, 36V Output

# PJH

### HIGHLIGHTS & FEATURES

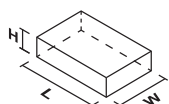
- Household appliance approval for pollution degree 3 to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- Available for Class I or Class II (double isolation) configuration with universal AC input voltage range
- 300W with fan cooled and up to 240W convection cooled
- Standard industrial footprint of 3" x 5"
- Built-in active PFC, remote ON/OFF, remote sense, power good signal
- No load input power consumption < 0.5W and low earth leakage current < 0.75mA
- Extreme low temperature cold start at -40°C



### GENERAL SPECIFICATIONS

|                                       | COMING SOON                                                                                                                  | COMING SOON                                     | COMING SOON                                   | COMING SOON                                   |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| OUTPUT                                | PJH-24V300WBB□                                                                                                               | PJH-24V300WBC□                                  | PJH-36V300WBB□                                | PJH-36V300WBC□                                |
| Output Voltage                        | V1: 24V, V <sub>SB</sub> : 5V                                                                                                | V1: 24V, V <sub>SB</sub> : 12V                  | V1: 36V, V <sub>SB</sub> : 5V                 | V1: 36V, V <sub>SB</sub> : 12V                |
| Output Voltage Range                  | V1: ± 5%, V <sub>SB</sub> : ± 5%                                                                                             | V1: ± 5%, V <sub>SB</sub> : ± 5%                | V1: ± 5%, V <sub>SB</sub> : ± 5%              | V1: ± 5%, V <sub>SB</sub> : ± 5%              |
| Output Current                        | V1: 0-12.5A<br>V <sub>SB</sub> : 0-1.2A                                                                                      | V1: 0-12.5A<br>V <sub>SB</sub> : 0-0.5A         | V1: 0-8.33A<br>V <sub>SB</sub> : 0-1.2A       | V1: 0-8.33A<br>V <sub>SB</sub> : 0-0.5A       |
| Output Power                          | 300W                                                                                                                         | 300W                                            | 300W                                          | 300W                                          |
| Line Regulation                       | < 0.5% (@ 90-264Vac input, 0-100% load)                                                                                      |                                                 |                                               |                                               |
| Load Regulation                       | < 1.0% (@ 90-264Vac input, 0-100% load)                                                                                      |                                                 |                                               |                                               |
| PARD (20MHz)                          | V1: < 240mVpp, V <sub>SB</sub> : < 120mVpp                                                                                   |                                                 | V1: < 360mVpp, V <sub>SB</sub> : < 120mVpp    |                                               |
| Hold-up Time                          | > 12ms @ 115Vac & 230Vac                                                                                                     |                                                 |                                               |                                               |
| INPUT                                 |                                                                                                                              |                                                 |                                               |                                               |
| Phase Input                           | Single Phase                                                                                                                 |                                                 |                                               |                                               |
| Input Voltage Range                   | 90-264Vac                                                                                                                    |                                                 |                                               |                                               |
| Input Frequency                       | 47-63Hz                                                                                                                      |                                                 |                                               |                                               |
| Input Current                         | < 4.0A @ 100Vac                                                                                                              |                                                 |                                               |                                               |
| Efficiency <sup>1)</sup> at 100% Load | > 93.0% @ 115Vac, > 94.0% @ 230Vac                                                                                           |                                                 |                                               |                                               |
| Max Inrush Current (Cold Start)       | < 20A @ 115Vac, < 40A @ 230Vac                                                                                               |                                                 |                                               |                                               |
| Power Factor                          | > 0.95 @ 115Vac & 230Vac                                                                                                     |                                                 |                                               |                                               |
| Leakage Current                       | < 0.75mA @ 240Vac                                                                                                            |                                                 |                                               |                                               |
| MECHANICAL                            |                                                                                                                              |                                                 |                                               |                                               |
| Case Cover / Chassis                  | -                                                                                                                            |                                                 |                                               |                                               |
| Dimensions (L × W × H)                | 127 × 76.2 × 31.7 mm<br>(5.00" × 3.00" × 1.25")                                                                              | 127 × 76.2 × 31.7 mm<br>(5.00" × 3.00" × 1.25") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") |
| Unit Weight                           | 0.45 kg (0.99 lb)                                                                                                            | 0.45 kg (0.99 lb)                               | 0.45 kg (0.99 lb)                             | 0.45 kg (0.99 lb)                             |
| Cooling System                        | Convection: 0-240W<br>Forced Air: 241-300W                                                                                   | Convection: 0-240W<br>Forced Air: 241-300W      | Convection: 0-240W<br>Forced Air: 241-300W    | Convection: 0-240W<br>Forced Air: 241-300W    |
| MTBF <sup>2)</sup>                    | > 700,000 hrs                                                                                                                | > 700,000 hrs                                   | > 700,000 hrs                                 | > 700,000 hrs                                 |
| ENVIRONMENT                           |                                                                                                                              |                                                 |                                               |                                               |
| Operating Temperature                 | -25°C to +70°C                                                                                                               |                                                 |                                               |                                               |
| Storage Temperature                   | -40°C to +85°C                                                                                                               |                                                 |                                               |                                               |
| Power De-rating                       | Convection: > 45°C (4.6W / °C) for orientation A, D; > 50°C (5.75W / °C) for orientation B<br>Forced Air: > 50°C (7.5W / °C) |                                                 |                                               |                                               |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                                                                                                 |                                                 |                                               |                                               |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                                                                                                |                                                 |                                               |                                               |

#### Dimensions Reference



#### Notes

- At 25°C ambient temperature.
- MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# PJU Open Frame Power Supply

## 13.8V, 27.6V Output

# PJU

### HIGHLIGHTS & FEATURES

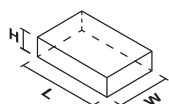
- Universal AC input voltage range
- Zero switch over time from loss of AC to battery operation
- Protection against reverse polarity battery connection
- Built-in diagnostic monitoring for AC OK and Battery Low status
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections
- Built-in over current and short circuit protection in Buffering (battery discharging) mode operation



### GENERAL SPECIFICATIONS

|                                       | NEW                                                       | NEW                                               | NEW                                               | NEW                                               |
|---------------------------------------|-----------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| OUTPUT                                | PJU-13V60W□A□                                             | PJU-13V60W□B□                                     | PJU-27V60W□A□                                     | PJU-27V60W□B□                                     |
| Output Voltage                        | V1: 13.8V, B+: 13.6V                                      | V1: 13.8V, B+: 13.6V                              | V1: 27.6V, B+: 27.4V                              | V1: 27.6V, B+: 27.4V                              |
| Output Voltage Range                  | V1: 13.52-14.07V                                          | V1: 13.52-14.07V                                  | V1: 27.04-28.00V                                  | V1: 27.04-28.00V                                  |
| Output Current                        | V1: 3.9A, B+: 0.4A                                        | V1: 3.9A, B+: 0.4A                                | V1: 1.75A, B+: 0.4A                               | V1: 1.75A, B+: 0.4A                               |
| Output Power                          | 60W                                                       | 60W                                               | 60W                                               | 60W                                               |
| Line Regulation                       | < 0.5%                                                    |                                                   |                                                   |                                                   |
| Load Regulation                       | < 1.0%                                                    |                                                   |                                                   |                                                   |
| PARD (20MHz)                          | < 100mVpp                                                 |                                                   | < 150mVpp                                         |                                                   |
| Hold-up Time                          | > 10ms @ 115Vac (100% load)                               |                                                   |                                                   |                                                   |
| INPUT                                 |                                                           |                                                   |                                                   |                                                   |
| Phase Input                           | Single Phase                                              |                                                   |                                                   |                                                   |
| Input Voltage Range                   | 90-264Vac                                                 |                                                   |                                                   |                                                   |
| Input Frequency                       | 47-63Hz                                                   |                                                   |                                                   |                                                   |
| Input Current                         | < 1.2A @ 115Vac, < 0.7A @ 230Vac                          |                                                   |                                                   |                                                   |
| Efficiency <sup>1)</sup> at 100% Load | > 86.0% @ 115Vac, > 87.0% @ 230Vac                        |                                                   | > 88.0% @ 115Vac, > 89.0% @ 230Vac                |                                                   |
| Max Inrush Current (Cold Start)       | < 30A @ 115Vac, < 60A @ 230Vac                            |                                                   |                                                   |                                                   |
| Power Factor                          | Conform to EN 61000-3-2                                   |                                                   |                                                   |                                                   |
| Leakage Current                       | < 1mA @ 240Vac                                            |                                                   |                                                   |                                                   |
| MECHANICAL                            |                                                           |                                                   |                                                   |                                                   |
| Case Cover / Chassis                  | SECC Steel                                                |                                                   |                                                   |                                                   |
| Dimensions (L × W × H) <sup>2)</sup>  | 101.6 × 50.8 × 30.6 mm<br>(4.00" × 2.00" × 1.20")         | 101.6 × 50.8 × 30.6 mm<br>(4.00" × 2.00" × 1.20") | 101.6 × 50.8 × 30.6 mm<br>(4.00" × 2.00" × 1.20") | 101.6 × 50.8 × 30.6 mm<br>(4.00" × 2.00" × 1.20") |
| Unit Weight <sup>2)</sup>             | 0.13 kg (0.29 lb)                                         | 0.13 kg (0.29 lb)                                 | 0.13 kg (0.29 lb)                                 | 0.13 kg (0.29 lb)                                 |
| Cooling System                        | Convection                                                |                                                   |                                                   |                                                   |
| MTBF <sup>3)</sup>                    | > 350,000 hrs                                             | > 350,000 hrs                                     | > 350,000 hrs                                     | > 350,000 hrs                                     |
| ENVIRONMENT                           |                                                           |                                                   |                                                   |                                                   |
| Operating Temperature                 | -20°C to +70°C                                            |                                                   |                                                   |                                                   |
| Storage Temperature                   | -40°C to +85°C                                            |                                                   |                                                   |                                                   |
| Power De-rating                       | > 40°C (1.67% / °C)<br>PJU-13V60WB□□: > 35°C (1.43% / °C) |                                                   | > 40°C (1.67% / °C)                               |                                                   |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                              |                                                   |                                                   |                                                   |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                             |                                                   |                                                   |                                                   |

#### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) Open frame (without chassis and cover).
- 3) MTBF as per Telcordia SR-332 (I/P: 115Vac & 230Vac, O/P: 100% load).
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Delta Industrial Power Supplies

## DIN Rail Modules



AR

### CliQ<sup>II</sup>

#### Redundancy Modules

- Wide input and output range of 22-60Vdc
- Very wide operating temperature from -40°C to +80°C
- Built-in 2 channel DC OK signal and alarm relay contact
- Support N+1 Redundancy connection
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2
- IP20 Certified



AR

### CliQ<sup>II</sup>

#### Buffer Modules

- Minimum buffering time of:
  - 250ms @ 24V/20A for DRB-24V020AB□
  - 200ms @ 24V/40A for DRB-24V040ABN
- Flexible operating buffering voltage modes: Fixed mode at 22Vdc; Dynamic mode for Vin-1V
- Support parallel connection to extend buffering time
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 for DRB-24V020ABA



AR

### CliQ<sup>II</sup>

#### DC-UPS Module

- Full corrosion resistant aluminium casing
- Suitable for 24V system up to 40A
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs per Telcordia SR-332
- Conformal coating on PCBAs to protect against common dust and chemical pollutants



AR

### CHROME

#### DC-UPS Module

- Suitable for 24V system up to 10A
- Zero switch over time from loss of DC input to battery operation
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- Full power for the entire temperature range from -20°C to +60°C
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs as per Telcordia SR-332



# CliQ II DIN Rail Modules

## Redundancy Modules

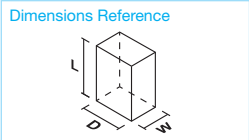


### HIGHLIGHTS & FEATURES

- Wide input and output range of 22-60Vdc
- Very wide operating temperature from -40°C to +80°C
- Built-in 2 channel DC OK signal and alarm relay contact
- Support N+1 Redundancy connection
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2
- IP20 Certified

### GENERAL SPECIFICATIONS

| OUTPUT                              | DRR-20□                                                                                                  | DRR-40□                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Output Current                      | Normal mode = 0-20Amps;<br>Short Circuit or Overload = 25Amps max                                        | Normal mode = 0-40Amps;<br>Short Circuit or Overload = 50Amps max                                      |
| Voltage Drop ( $V_{in} - V_{out}$ ) | Typical 0.65V                                                                                            |                                                                                                        |
| INPUT                               |                                                                                                          |                                                                                                        |
| Input Voltage Range                 | 22-60Vdc                                                                                                 |                                                                                                        |
| Input Current                       | (1+1 Redundancy) = Nom. 2 x 12.5Amps<br>(N+1 Redundancy) = Nom. 2 x 10Amps<br>(Single use) = Nom. 20Amps | (1+1 Redundancy) = Nom. 2 x 25Amps<br>(N+1 Redundancy) = Nom. 2 x 20Amps<br>(Single use) = Nom. 40Amps |
| MECHANICAL                          |                                                                                                          |                                                                                                        |
| Case Cover / Chassis                | Aluminium                                                                                                |                                                                                                        |
| Dimensions (L x W x D)              | 121 x 50 x 122.1 mm<br>(4.76" x 1.97" x 4.81")                                                           | 121 x 50 x 122.1 mm<br>(4.76" x 1.97" x 4.81")                                                         |
| Unit Weight                         | 0.38 kg (0.84 lb)                                                                                        | 0.52 kg (1.15 lb)                                                                                      |
| Cooling System                      | Convection                                                                                               |                                                                                                        |
| LED Indicators                      | Green LED DC OK: $V_{in1}$ and $V_{in2}$                                                                 |                                                                                                        |
| MTBF <sup>1)</sup>                  | > 800,000 hrs                                                                                            | > 800,000 hrs                                                                                          |
| ENVIRONMENT                         |                                                                                                          |                                                                                                        |
| Operating Temperature               | -40°C to +80°C                                                                                           |                                                                                                        |
| Storage Temperature                 | -40°C to +85°C                                                                                           |                                                                                                        |
| Power De-rating                     | > 50°C (2.5% / °C)                                                                                       |                                                                                                        |
| Operating Humidity                  | 5 to 95% RH (Non-Condensing)                                                                             |                                                                                                        |
| Operating Altitude                  | 0 to 2,500 m (0 to 8,200 ft)                                                                             |                                                                                                        |



Notes  
1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.  
2) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ II DIN Rail Modules

## Buffer Modules

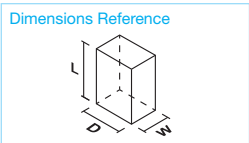


### HIGHLIGHTS & FEATURES

- Minimum buffering time of:
  - 250ms @ 24V/20A for DRB-24V020ABQ
  - 200ms @ 24V/40A for DRB-24V040ABN
- Flexible operating buffering voltage modes:
  - Fixed mode at 22Vdc
  - Dynamic mode for  $V_{in} - 1V$
- Support parallel connection to extend buffering time
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (DRB-24V020ABA)

### GENERAL SPECIFICATIONS

| OUTPUT                 |  | DRB-24V020ABQ                                                                                                                                                                                                                       | DRB-24V040ABN                                  |
|------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Output Voltage         |  | 24Vdc typ. (Depends on $V_{in}$ )                                                                                                                                                                                                   | 24Vdc typ. (Depends on $V_{in}$ )              |
| Output Voltage Range   |  | 22-28V<br>(Switch = "Fix 22V" buffering starts if terminal voltage falls below 22V)<br>(Switch = " $V_{in} - 1V$ " buffering starts if terminal voltage is decreased by more than 1V)                                               |                                                |
| Output Current         |  | 20.0A Max                                                                                                                                                                                                                           | 40.0A Max                                      |
| PARD (20MHz)           |  | < 200mVpp, Buffering Mode                                                                                                                                                                                                           | < 350mVpp, Buffering Mode                      |
| Buffer Time            |  | > 250ms @ 24V/20A load,<br>> 5s @ 24V/1A load                                                                                                                                                                                       | > 200ms @ 24V/40A load,<br>> 8s @ 24V/1A load  |
| INPUT                  |  |                                                                                                                                                                                                                                     |                                                |
| Input Voltage Range    |  | 22.8-28.8Vdc                                                                                                                                                                                                                        |                                                |
| Input Current          |  | Charging Mode: < 0.6A                                                                                                                                                                                                               | Charging Mode: < 0.6A                          |
| Input Power            |  | 2.5W average (Standby Mode)                                                                                                                                                                                                         |                                                |
| Charging Time          |  | < 30s                                                                                                                                                                                                                               | < 40s                                          |
| Polarity Protection    |  | Yes                                                                                                                                                                                                                                 | Yes                                            |
| MECHANICAL             |  |                                                                                                                                                                                                                                     |                                                |
| Case Cover / Chassis   |  | Aluminium                                                                                                                                                                                                                           | Aluminium                                      |
| Dimensions (L x W x D) |  | 121 x 70 x 120.1 mm<br>(4.76" x 2.76" x 4.73")                                                                                                                                                                                      | 121 x 70 x 120.1 mm<br>(4.76" x 2.76" x 4.73") |
| Unit Weight            |  | 0.76 kg (1.68 lb)                                                                                                                                                                                                                   | 0.90 kg (1.98 lb)                              |
| Cooling System         |  | Convection                                                                                                                                                                                                                          |                                                |
| LED Indicators         |  | Green LED Off = Unit is discharged or $V_{in} < 22Vdc$<br>Green LED On = Unit is fully charged (Ready)<br>Green LED Flashing Slowly (1Hz) = Unit is charging<br>Green LED Flashing Quickly (10Hz) = Unit is discharging (Buffering) |                                                |
| MTBF <sup>1)</sup>     |  | > 800,000 hrs                                                                                                                                                                                                                       | > 800,000 hrs                                  |
| SAFETY / ENVIRONMENT   |  |                                                                                                                                                                                                                                     |                                                |
| Operating Temperature  |  | -25°C to +75°C                                                                                                                                                                                                                      |                                                |
| Storage Temperature    |  | -25°C to +85°C                                                                                                                                                                                                                      |                                                |
| Power De-rating        |  | > 70°C (5% / °C)                                                                                                                                                                                                                    |                                                |
| Operating Humidity     |  | 5 to 95% RH (Non-Condensing)                                                                                                                                                                                                        |                                                |
| Operating Altitude     |  | 0 to 2,500 m (0 to 8,200 ft)                                                                                                                                                                                                        |                                                |



Notes  
1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.  
2) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# CliQ II DIN Rail Modules

## DC-UPS Module



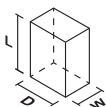
### HIGHLIGHTS & FEATURES

- Full corrosion resistant aluminium casing
- Suitable for 24V system up to 40A
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs per Telcordia SR-332
- Conformal coating option on PCBAs to protect against common dust and chemical pollutants

### GENERAL SPECIFICATIONS

| OUTPUT                 |                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Voltage Range   | 23-28Vdc                                                                                                                                                                                                                                             |
| Output Current         | 40.0A Max                                                                                                                                                                                                                                            |
| Output Power           | 960W Max                                                                                                                                                                                                                                             |
| INPUT                  |                                                                                                                                                                                                                                                      |
| Input Voltage Range    | 24-28Vdc                                                                                                                                                                                                                                             |
| Input Current          | Charging Mode: 2.0A ± 1.0A                                                                                                                                                                                                                           |
| Charging Time          | < 3hr ± 1 hr (for battery 24V/15AH)                                                                                                                                                                                                                  |
| Efficiency             | Charging Mode: > 70.0%<br>Buffering Mode: > 99.0%                                                                                                                                                                                                    |
| MECHANICAL             |                                                                                                                                                                                                                                                      |
| Case Cover / Chassis   | Aluminium                                                                                                                                                                                                                                            |
| Dimensions (L x W x D) | 121 x 50 x 117.3 mm<br>(4.76" x 1.97" x 4.62")                                                                                                                                                                                                       |
| Unit Weight            | 0.60 kg (1.32 lb)                                                                                                                                                                                                                                    |
| Cooling System         | Convection                                                                                                                                                                                                                                           |
| LED Indicators         | Green LED ON = Battery is fully charged<br>Green LED Flashing = Battery is charging<br>Orange LED ON = Battery 24V or DC 24V reverse polarity<br>Orange LED Flashing = Battery is discharging<br>Red LED ON = Battery fail (no battery is connected) |
| MTBF <sup>1)</sup>     | > 500,000 hrs                                                                                                                                                                                                                                        |
| ENVIRONMENT            |                                                                                                                                                                                                                                                      |
| Operating Temperature  | -20°C to +60°C                                                                                                                                                                                                                                       |
| Storage Temperature    | -40°C to +85°C                                                                                                                                                                                                                                       |
| Operating Humidity     | 5 to 95% RH (Non-Condensing)                                                                                                                                                                                                                         |
| Operating Altitude     | 0 to 3,000 m (0 to 9,840 ft)                                                                                                                                                                                                                         |

Dimensions Reference



- Notes
- 1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.
  - 2) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# Chrome DIN Rail Module

## DC-UPS Module

CHROME

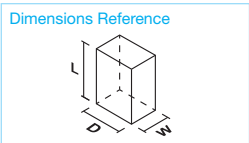


### HIGHLIGHTS & FEATURES

- Suitable for 24V system up to 10A
- Zero switch over time from loss of DC input to battery operation
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- Full power for the entire temperature range from -20°C to +60°C
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs as per Telcordia SR-332

### GENERAL SPECIFICATIONS

| OUTPUT                 |                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DRU-24V10ACZ           |                                                                                                                                                                                                                                                      |
| Output Voltage Range   | 23-28Vdc                                                                                                                                                                                                                                             |
| Output Current         | 10.0A Max                                                                                                                                                                                                                                            |
| Output Power           | 240W Max                                                                                                                                                                                                                                             |
| INPUT                  |                                                                                                                                                                                                                                                      |
| Input Voltage Range    | 24-28Vdc                                                                                                                                                                                                                                             |
| Input Current          | Charging Mode: 0.5A ± 0.1A                                                                                                                                                                                                                           |
| Charging Time          | < 25hr ± 5 hr (for battery 24V/12AH)                                                                                                                                                                                                                 |
| Efficiency             | Charging Mode: > 70.0%<br>Buffering Mode: > 99.0%                                                                                                                                                                                                    |
| MECHANICAL             |                                                                                                                                                                                                                                                      |
| Case Cover / Chassis   | Plastic                                                                                                                                                                                                                                              |
| Dimensions (L x W x D) | 91 x 71 x 55.6 mm<br>(3.58" x 2.80" x 2.19")                                                                                                                                                                                                         |
| Unit Weight            | 0.14 kg (0.31 lb)                                                                                                                                                                                                                                    |
| Cooling System         | Convection                                                                                                                                                                                                                                           |
| LED Indicators         | Green LED ON = Battery is fully charged<br>Green LED Flashing = Battery is charging<br>Orange LED ON = Battery 24V or DC 24V reverse polarity<br>Orange LED Flashing = Battery is discharging<br>Red LED ON = Battery fail (no battery is connected) |
| MTBF <sup>1)</sup>     | > 500,000 hrs                                                                                                                                                                                                                                        |
| ENVIRONMENT            |                                                                                                                                                                                                                                                      |
| Operating Temperature  | -20°C to +60°C                                                                                                                                                                                                                                       |
| Storage Temperature    | -40°C to +85°C                                                                                                                                                                                                                                       |
| Operating Humidity     | 5 to 95% RH (Non-Condensing)                                                                                                                                                                                                                         |
| Operating Altitude     | 0 to 3,000 m (0 to 9,840 ft)                                                                                                                                                                                                                         |



Notes

1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.

2) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Standard Products

## Delta Medical Power Supplies



### Product Types

#### 1 Enclosed

All Medical Enclosed Power Supplies are certified with both medical and ITE safety approvals. Encased in strong metal casing, the series of versatile products can be used in a wide variety of equipment for medical and industrial applications.



#### 2 Open Frame

The Medical Open Frame provides high performance and reliable solution as an internal power supply for various types of medical equipment.



#### 3 ATX

Highly reliable design with ATX standard form factor and output cable pin-outs. Certified with medical standards and suitable for use in medical devices with Type BF classification.



#### 4 Configurable

The MEG configurable power supply is designed for use in both medical and industrial applications. It supports up to 6 isolated output. The products can be configured for output voltages ranging from 2Vdc to 60Vdc.



#### 5 Adapter

The Medical Adapter rides on Delta's market leading adapter technology to provide the same high quality external power supplies for medical systems and equipments.



# Selection Guide

## Delta Medical Power Supplies

New products are frequently introduced. Please visit [www.DeltaPSU.com](http://www.DeltaPSU.com) for latest product updates.

| Product Type            | Series                                                              | Model Name     | CC Code | Input Terminal | Output Voltage | Output Current | Output Power | Page |
|-------------------------|---------------------------------------------------------------------|----------------|---------|----------------|----------------|----------------|--------------|------|
| Enclosed Power Supply   | MDS                                                                 | MDS-200ADB12   | AA      | Molex 2-pin    | 12V            | 16.67A         | 200W         | 77   |
|                         |                                                                     | MDS-250ADB12   | AA      | Molex 2-pin    |                | 20.84A         | 250W         |      |
|                         |                                                                     | MDS-300ADB12   | AA      | Molex 2-pin    |                | 25.0A          | 300W         |      |
|                         |                                                                     | MDS-400ADB12   | AA      | Molex 2-pin    |                | 33.33A         | 400W         |      |
|                         |                                                                     | MDS-300ADB18   | AA      | Molex 2-pin    | 18V            | 16.66A         | 300W         |      |
|                         |                                                                     | MDS-200ADB24   | A       | Molex 2-pin    | 24V            | 8.33A          | 200W         | 78   |
|                         |                                                                     | MDS-250ADB24   | AA      | Molex 2-pin    |                | 10.41A         | 250W         |      |
|                         |                                                                     | MDS-300ADB24   | AA      | Molex 2-pin    |                | 12.5A          | 300W         |      |
|                         |                                                                     | MDS-400ADB24   | AA      | Molex 2-pin    |                | 16.67A         | 400W         |      |
|                         |                                                                     | MDS-300ADB48   | AA      | Molex 2-pin    | 48V            | 6.25A          | 300W         |      |
|                         | MEB<br>• Intelligent Fan Speed Control<br>• PMBus Ver 1.3 Supported | MEB-1K2A24T    | AAA     | DINKLE 3-pin   | 24V            | 50.0A          | 1200W        | 79   |
|                         |                                                                     | MEB-1K2A48T    | AAA     | DINKLE 3-pin   | 48V            | 25.0A          | 1200W        |      |
| Open Frame Power Supply | MDS                                                                 | MDS-040APS12 B | A       | JST 2-pin      | 12V            | 3.33A          | 40W          | 81   |
|                         |                                                                     | MDS-065APS12 B | A       | JST 2-pin      |                | 5.42A          | 65W          |      |
|                         |                                                                     | MDS-100APS12 B | A       | JST 2-pin      |                | 8.33A          | 100W         |      |
|                         |                                                                     | MDS-100BPS12 B | A       | JST 2-pin      |                | 8.33A          | 100W         |      |

### Medical Power Supply Model Numbering

| MDS –                                                                                                  | XXX                                                                                                 | □                | □                                              | □                                                                                           | □                                      | □□                                                                              |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------|
| Delta Medical Power Supply<br>MDS-200A series<br>MDS-250A series<br>MDS-300A series<br>MDS-400A series | Max power wattage in the product series. May be lower at some voltages.<br>200 - 200W<br>250 - 250W | Family Code<br>A | Product Type<br>D - Enclosed<br>P - Open Frame | Input Type<br>A, C, E, G - Class II 2-pin connector<br>B, D, F, H - Class I 3-pin connector | Output Voltage<br>12 - 12V<br>24 - 24V | CC Code<br>For DC connector, label, etc.<br>A - DC connector type <sup>1)</sup> |

| ME                         | B –          | XXX                                                                                     | □                | □□                         | □                          | □□□     |
|----------------------------|--------------|-----------------------------------------------------------------------------------------|------------------|----------------------------|----------------------------|---------|
| Delta Medical Power Supply | B - Enclosed | Max power wattage in the product series. May be lower at some voltages.<br>1K2 - 1,200W | Family Code<br>A | Output Voltage<br>24 - 24V | Inlet Type<br>T - Terminal | CC Code |

| MDS –                                                                                                                               | XXX                                                                                               | □                                           | □                                             | □                                    | □                                      | □                                                                                  | □                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------|--------------------------------------|----------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Delta Medical Power Supply<br>MDS-040APS series<br>MDS-065APS series<br>MDS-100APS series<br>MDS-100BPS series<br>MDS-400AUS series | Max power wattage in the product series. May be lower at some voltages.<br>040 - 40W<br>065 - 65W | Family Code<br>A - Family A<br>B - Family B | Product Type<br>P - Open Frame<br>U - U Frame | Input Type Code<br>S - Single Output | Output Voltage<br>12 - 12V<br>24 - 24V | Input Configuration<br>B - Class I 3-pin connector<br>A - Class II 2-pin connector | CC Code<br>For DC connector, label, etc.<br>A - DC connector <sup>1)</sup> |

<sup>1)</sup> Refer to technical datasheet or product catalog

| Product Type            | Series                                    | Model Name     | CC Code | Input Terminal | Output Voltage    | Output Current  | Output Power | Page |
|-------------------------|-------------------------------------------|----------------|---------|----------------|-------------------|-----------------|--------------|------|
| Open Frame Power Supply | MDS                                       | MDS-200APB12*  | AA      | Molex 2-pin    | 12V               | 16.67A          | 200W         | 82   |
|                         |                                           | MDS-250APB12*  | AA      | Molex 2-pin    |                   | 20.84A          | 250W         |      |
|                         |                                           | MDS-300APB12*  | AA      | Molex 2-pin    |                   | 25.0A           | 300W         |      |
|                         |                                           | MDS-400APB12*  | AA      | Molex 2-pin    |                   | 33.33A          | 400W         |      |
|                         |                                           | MDS-040APS15 B | A       | JST 2-pin      | 15V               | 2.67A           | 40W          | 83   |
|                         |                                           | MDS-065APS15 B | A       | JST 2-pin      |                   | 4.2A            | 65W          |      |
|                         |                                           | MDS-100APS15 B | A       | JST 2-pin      |                   | 6.67A           | 100W         |      |
|                         |                                           | MDS-100BPS15 B | A       | JST 2-pin      |                   | 6.7A            | 100W         |      |
|                         |                                           | MDS-040APS18 B | A       | JST 2-pin      | 18V               | 2.22A           | 40W          | 84   |
|                         |                                           | MDS-065APS18 B | A       | JST 2-pin      |                   | 3.61A           | 65W          |      |
|                         |                                           | MDS-100APS18 B | A       | JST 2-pin      |                   | 5.55A           | 100W         |      |
|                         |                                           | MDS-100BPS18 B | A       | JST 2-pin      |                   | 5.5A            | 100W         |      |
|                         |                                           | MDS-300APB18*  | AA      | Molex 2-pin    | 19V               | 16.66A          | 300W         | 85   |
|                         |                                           | MDS-400AUS19 B | A       | DECA 3-pin     |                   | 21.1A           | 400W         |      |
|                         |                                           | MDS-400AUS24 B | A       | DECA 3-pin     |                   | 16.67A          | 400W         |      |
|                         |                                           | MDS-040APS24 B | A       | JST 2-pin      |                   | 1.67A           | 40W          | 86   |
|                         |                                           | MDS-065APS24 B | A       | JST 2-pin      | 24V               | 2.71A           | 65W          |      |
|                         |                                           | MDS-100APS24 B | A       | JST 2-pin      |                   | 4.17A           | 100W         |      |
|                         |                                           | MDS-100BPS24 B | A       | JST 2-pin      |                   | 4.2A            | 100W         |      |
|                         |                                           | MDS-200APB24*  | AA      | Molex 2-pin    | 48V               | 8.33A           | 200W         | 87   |
|                         |                                           | MDS-250APB24*  | AA      | Molex 2-pin    |                   | 10.41A          | 250W         |      |
|                         |                                           | MDS-300APB24*  | AA      | Molex 2-pin    |                   | 12.5A           | 300W         |      |
|                         |                                           | MDS-400APB24*  | AA      | Molex 2-pin    |                   | 16.66A          | 400W         |      |
|                         |                                           | MDS-300APB48*  | AA      | Molex 2-pin    | 5.1V/12V/-15V/15V | 6.25A           | 300W         | 88   |
|                         |                                           | MDS-100AP401 B | A       | Molex 2-pin    |                   | 8A/3A/0.8A/0.8A | 100W         |      |
|                         | MEP<br>• High MTBF<br>• Low touch current | MEP-25A15J     | BNA     | JWT 2-pin      | 15V               | 1.67A           | 25W          | 89   |
|                         |                                           |                |         |                |                   |                 |              |      |
|                         | MEU<br>• PMBus Ver 1.3 Supported          | MEU-600C24T    | AAA     | DINKLE 3-pin   | 24V               | 25.0A           | 600W         | 90   |
|                         |                                           | MEU-600C48T    | AAA     | DINKLE 3-pin   | 48V               | 12.5A           | 600W         |      |

\* Product with options for enclosed or U-Frame

## Medical Power Supply Model Numbering

| MDS –                                      | XXX                                                                                   | □                | □                              | □                                            | □                                                     | □                                                                          |
|--------------------------------------------|---------------------------------------------------------------------------------------|------------------|--------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------|
| Delta Medical Power Supply<br>MDS-100AP401 | Max power wattage in the product series. May be lower at some voltages.<br>100 - 100W | Family Code<br>A | Product Type<br>P - Open Frame | Output Voltage<br>401 - 5.1V, 12V, -15V, 15V | Input Configuration<br>B - Class I with PE connection | CC Code<br>For DC connector, label, etc.<br>A - DC connector <sup>1)</sup> |

1) Refer to technical datasheet or product catalog

| ME                         | P –            | XX                                                                                  | □                | □                          | □                              | □□□     |
|----------------------------|----------------|-------------------------------------------------------------------------------------|------------------|----------------------------|--------------------------------|---------|
| Delta Medical Power Supply | P - Open Frame | Max power wattage in the product series. May be lower at some voltages.<br>25 - 25W | Family Code<br>A | Output Voltage<br>15 - 15V | Input Connector<br>J - Harness | CC Code |

| ME                         | U –         | XXX                                                                                   | □                           | □                                      | □                          | □□□     |
|----------------------------|-------------|---------------------------------------------------------------------------------------|-----------------------------|----------------------------------------|----------------------------|---------|
| Delta Medical Power Supply | U - U Frame | Max power wattage in the product series. May be lower at some voltages.<br>600 - 600W | Family Code<br>C - Family C | Output Voltage<br>24 - 24V<br>48 - 48V | Inlet Type<br>T - Terminal | CC Code |

# Selection Guide

## Delta Medical Power Supplies

New products are frequently introduced. Please visit [www.DeltaPSU.com](http://www.DeltaPSU.com) for latest product updates.

| Product Type     | Series | Model Name   | CC Code | AC Inlet | Output Voltage                                                                    | Output Current                     | Output Power | Page |
|------------------|--------|--------------|---------|----------|-----------------------------------------------------------------------------------|------------------------------------|--------------|------|
| ATX Power Supply | MDS    | MDS-350AD701 | AA      | C14      | +3.3V, +5V, +5V <sub>SB</sub> , +12V <sub>1</sub> , +12V <sub>2</sub> , -12V, -5V | 8A, 9A, 1.25A, 8A, 8A, 0.25A, 0.1A | 350W         | 93   |

| Product Type              | Series                                                              | Model Name | Output Slots | Output Voltage        | Output Power | Page |
|---------------------------|---------------------------------------------------------------------|------------|--------------|-----------------------|--------------|------|
| Configurable Power Supply | MEG<br>• PMBus Ver 1.3 Supported<br>• IT & Medical safety approvals | MEG-1K2A4  | 4 Slots      | Single Output: 2V-60V | 1,200W       | 95   |
|                           |                                                                     | MEG-2K1A6  | 6 Slots      |                       | 2,100W       |      |

| Product Type | Series | Model Name     | CC Code | AC Inlet                   | Output Voltage | Output Current | Output Power | Page |
|--------------|--------|----------------|---------|----------------------------|----------------|----------------|--------------|------|
| Adapter      | MDS    | MDS-005AAS05 A | R       | Wall mount-China type      | 5V             | 1.00A          | 5W           | 97   |
|              |        | MDS-005AAS05 B | R       | Wall mount-Japan, USA type |                | 1.00A          | 5W           |      |
|              |        | MDS-005AAS05 C | R       | Wall mount-EU type         |                | 1.00A          | 5W           |      |
|              |        | MDS-030AAC05*  |         | Duck Head                  |                | 3.00A          | 15W          |      |
|              |        | MDS-005AAS06 A | R       | Wall mount-China type      | 6V             | 0.83A          | 5W           | 98   |
|              |        | MDS-005AAS06 B | R       | Wall mount-Japan, USA type |                | 0.83A          | 5W           |      |
|              |        | MDS-005AAS06 C | R       | Wall mount-EU type         |                | 0.83A          | 5W           |      |
|              |        | MDS-030AAC07*  |         | Duck Head                  | 7V             | 3.00A          | 21W          |      |
|              |        | MDS-030AAC12*  |         | Duck Head                  |                | 2.00A          | 24W          |      |
|              |        | MDS-060AAS12 B | A       | C14                        | 12V            | 5.00A          | 60W          |      |
|              |        | MDS-060BAS12 A | B       | C8                         |                | 5.00A          | 60W          |      |
|              |        | MDS-080AAS12 A |         | C8                         |                | 6.66A          | 80W          |      |
|              |        | MDS-150AAS12 B | A       | C14                        |                | 10.00A         | 120W         |      |
|              |        |                |         |                            |                |                |              |      |

\* Please refer to technical datasheet to get detailed information

### Medical Power Supply Model Numbering

| MDS –                                      | XXX                                                                                   | □                | □                            | □                                                                                                         | □□      |
|--------------------------------------------|---------------------------------------------------------------------------------------|------------------|------------------------------|-----------------------------------------------------------------------------------------------------------|---------|
| Delta Medical Power Supply<br>MDS-350AD701 | Max power wattage in the product series. May be lower at some voltages.<br>350 - 350W | Family Code<br>A | Product Type<br>D - Enclosed | Output Voltage<br>701 - +3.3V, +5V, +5V <sub>SB</sub> , +12V <sub>1</sub> , +12V <sub>2</sub> , -12V, -5V | CC Code |

| ME                         | G –              | XXX                                                                                                     | A                | □                                         |
|----------------------------|------------------|---------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------|
| Delta Medical Power Supply | G - Configurable | Max power wattage in the product series. May be lower at some voltages.<br>1K2 - 1,200W<br>2K1 - 2,100W | Family Code<br>A | Slot Number<br>4 - 4 Slots<br>6 - 6 Slots |

| MDS –                                                                                                                                                                         | XXX                                                                                              | □                                           | □                           | □                                | □                                      | □                                                                                                  | □□                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------|----------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Delta Medical Power Supply<br>MDS-005AAS series<br>MDS-060AAS series<br>MDS-060BAS series<br>MDS-080AAS series<br>MDS-090AAS series<br>MDS-090BAS series<br>MDS-150AAS series | Max power wattage in the product series. May be lower at some voltages.<br>005 - 5W<br>060 - 60W | Family Code<br>A - Family A<br>B - Family B | Product Type<br>A - Adapter | # of Output<br>S - Single Output | Output Voltage<br>12 - 12V<br>24 - 24V | Input Configuration<br>A - C8<br>B - C14<br>C - NA<br><br>A - CN<br>B - US<br>C - EU<br>for 005AAS | CC Code<br>For DC plug, cable length, label, etc. |



| Product Type | Series                                                          | Model Name     | CC Code | AC Inlet           | Output Voltage | Output Current | Output Power | Page |
|--------------|-----------------------------------------------------------------|----------------|---------|--------------------|----------------|----------------|--------------|------|
| Adapter      | MDS                                                             | MDS-030AAC15*  |         | Duck Head          | 15V            | 2.00A          | 30W          | 99   |
|              |                                                                 | MDS-060AAS15 B | A       | C14                |                | 4.00A          | 60W          |      |
|              |                                                                 | MDS-090AAS15 B | A       | C14                |                | 6.00A          | 90W          |      |
|              |                                                                 | MDS-060AAS19 B | A       | C14                | 19V            | 3.20A          | 60W          | 100  |
|              |                                                                 | MDS-060BAS19 A | A       | C8                 |                | 3.15A          | 60W          |      |
|              |                                                                 | MDS-090AAS19 B | A       | C14                |                | 4.74A          | 90W          |      |
|              |                                                                 | MDS-150AAS19 B | A       | C14                |                | 7.89A          | 150W         |      |
|              |                                                                 | MDS-150CAB19   | AA      | C6                 |                | 7.90A          | 150W         |      |
|              |                                                                 | MDS-030AAC24*  |         | Duck Head          | 24V            | 1.25A          | 30W          | 101  |
|              |                                                                 | MDS-060AAS24 B | A       | C14                |                | 2.50A          | 60W          |      |
|              |                                                                 | MDS-060BAS24 A | A       | C8                 |                | 2.50A          | 60W          |      |
|              |                                                                 | MDS-090AAS24 B | A       | C14                |                | 3.75A          | 90W          | 102  |
|              |                                                                 | MDS-090BAS24 A | B       | C8                 |                | 3.75A          | 90W          |      |
|              |                                                                 | MDS-150AAS24 B | A       | C14                |                | 6.25A          | 150W         |      |
|              | MEA<br>• Efficiency Level VI<br>• 2 × MOPP isolation            | MEA-120A15B    | G-A     | C8                 | 15V            | 8.0A           | 120W         | 103  |
|              |                                                                 | MEA-250A24C    | H-A     | C14                | 24V            | 10.42A         | 250W         |      |
|              | MEF<br>• IP22 ingress protection rating<br>• 2 × MOPP isolation | MEF-010A05B    | J-A     | Wall mount-US type | 5V             | 2.0A           | 5W           | 104  |

\* Please refer to technical datasheet to get detailed information

## Medical Power Supply Model Numbering

| MDS –                                        | XXX                                                                                   | □                | □                                                                                                      | □                                                                                                                                                                                   | □□                         | □□                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Delta Medical Power Supply<br>MDS-150CAB19A  | Max power wattage in the product series. May be lower at some voltages.<br>150 - 150W | Family Code<br>C | Product Type<br>A - Adapter                                                                            | Input Connector Type<br>A, C, E, G - Class II C8/C18<br>B, D, F, H - Class I C6/C14                                                                                                 | Output Voltage<br>19 - 19V | CC Code<br>AA-ZX<br>Power cord length, plug, label, etc.                                                                                                                                                                                                                                                               |
| MDS –                                        | XXX                                                                                   | AAC              | □                                                                                                      | □                                                                                                                                                                                   |                            | □                                                                                                                                                                                                                                                                                                                      |
| Delta Medical Power Supply<br>MDS-030 series | Max power wattage in the product series. May be lower at some voltages.<br>030 - 30W  | Family Code      | Output Voltage (Single Output)<br>05 - 5V<br>07 - 7V<br>12 - 12V<br>15 - 15V <sup>1)</sup><br>24 - 24V | CC Code<br>DC plug type and output cable length<br>A - 2.1 × 5.5 × 10 mm DC plug, and 1200 mm cable length<br>B - 2.1 × 5.5 × 12 mm DC plug, and 1200 mm cable length <sup>2)</sup> |                            | CC Code<br>Country Duck Head Type<br>A - China G - Korea <sup>2)</sup><br>B - United States <sup>2)</sup> H - India <sup>2)</sup><br>C - European <sup>2)</sup> J - Argentina <sup>2)</sup><br>D - United Kingdom <sup>2)</sup> K - Brazil <sup>2)</sup><br>E - Australia <sup>2)</sup> M - South Africa <sup>2)</sup> |

1) MDS-030AAC15 BB is not available

2) Options

| ME                         | A –                 | XXX                                                                                                 | □                | □□                                     | □                                                          | □□                                                |
|----------------------------|---------------------|-----------------------------------------------------------------------------------------------------|------------------|----------------------------------------|------------------------------------------------------------|---------------------------------------------------|
| Delta Medical Power Supply | A - Desktop Adapter | Max power wattage in the product series. May be lower at some voltages.<br>120 - 120W<br>250 - 250W | Family Code<br>A | Output Voltage<br>15 - 15V<br>24 - 24V | Input Connector Type<br>B - Class II C8<br>C - Class I C14 | CC Code<br>For DC plug, cable length, label, etc. |

| ME                         | F –       | XXX                                                                                  | □                | □□                        | B                                                   | □□                                                |
|----------------------------|-----------|--------------------------------------------------------------------------------------|------------------|---------------------------|-----------------------------------------------------|---------------------------------------------------|
| Delta Medical Power Supply | F - Fixed | Max power wattage in the product series. May be lower at some voltages.<br>010 - 10W | Family Code<br>A | Output Voltage<br>05 - 5V | Country Duck Head Type<br>B - United States (2-pin) | CC Code<br>For DC plug, cable length, label, etc. |

# Delta Medical Power Supplies

## Enclosed Power Supply



AR

### MDS

- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. requirements
- Suitable for type BF medical product
- Safety approvals for medical and IT applications
- Remote on/off control
- Power Good signal
- High MTBF > 500,000 hrs as per Telcordia SR-332



AR

### MEB

- Full power from 90Vac to 264Vac, up to 50°C ambient
- Up to 500K hours MTBF
- 2 × MOPP isolation, Suitable for type BF medical products
- Current sharing and 5V/2A standby output
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- PMBus Ver 1.3 supported
- Intelligent fan speed control



# MDS Enclosed Power Supply

## 12V, 18V Output

# MDS

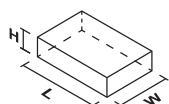
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Class B EMI; 4<sup>th</sup> Edition Immunity Compliance
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-200ADB12                                                                    | MDS-250ADB12                                           | MDS-300ADB12                                          | MDS-400ADB12                                          | MDS-300ADB18                                          |
|-------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Output Voltage                            | 12V                                                                             | 12V                                                    | 12V                                                   | 12V                                                   | 18V                                                   |
| Output Current (Max)                      | 9.17A (Convection)<br>16.67A (with 8.5CFM Forced Air)                           | 12.5A (Convection)<br>20.84A (with 10CFM Forced Air)   | 15.83A (Convection)<br>25.0A (with 10CFM Forced Air)  | 33.33A (with 20CFM Forced Air)                        | 10.55A (Convection)<br>16.66A (with 10CFM Forced Air) |
| Output Power                              | 110W (Convection)<br>200W (with 8.5CFM Forced Air)                              | 150W (Convection)<br>250W (with 10CFM Forced Air)      | 190W (Convection)<br>300W (with 10CFM Forced Air)     | 400W (with 20CFM Forced Air)                          | 190W (Convection)<br>300W (with 10CFM Forced Air)     |
| Load Regulation                           | ± 1%                                                                            |                                                        |                                                       |                                                       |                                                       |
| Ripple & Noise                            | 1% typ. pk-pk Vrated @ Full load                                                |                                                        |                                                       | 150mV pk-pk Vrated @ Full load                        | 1% typ. pk-pk Vrated @ Full load                      |
| INPUT                                     |                                                                                 |                                                        |                                                       |                                                       |                                                       |
| Input Voltage Range                       | 90-264Vac                                                                       |                                                        |                                                       |                                                       |                                                       |
| Input Frequency                           | 47-63Hz                                                                         |                                                        |                                                       |                                                       |                                                       |
| Efficiency                                | 91.0% typ. @ 115Vac/60Hz,<br>93.0% typ. @ 230Vac/50Hz                           | 89.45% typ. @ 115Vac/60Hz,<br>90.5% typ. @ 230Vac/50Hz | 91.3% typ. @ 115Vac/60Hz,<br>92.6% typ. @ 230Vac/50Hz | 89.5% typ. @ 115Vac/60Hz,<br>91.5% typ. @ 230Vac/50Hz | 92.5% typ. @ 115Vac/60Hz,<br>93.5% typ. @ 230Vac/50Hz |
| Leakage Current <sup>1)</sup><br>(264Vac) | Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC<br>Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC |                                                        |                                                       |                                                       |                                                       |
| MECHANICAL                                |                                                                                 |                                                        |                                                       |                                                       |                                                       |
| Dimensions (L × W × H)                    | 113.9 × 64.7 × 44.7 mm<br>(4.48" × 2.55" × 1.76")                               | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")        | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")       | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")       | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")       |
| Unit Weight                               | 0.35 kg (0.76 lb)                                                               | 0.61 kg (1.35 lb)                                      | 0.61 kg (1.35 lb)                                     | 0.61 kg (1.35 lb)                                     | 0.61 kg (1.35 lb)                                     |
| MTBF <sup>2)</sup>                        | 800,000 hrs                                                                     | 500,000 hrs                                            | 800,000 hrs                                           | 500,000 hrs                                           | 800,000 hrs                                           |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B                                        |                                                        |                                                       |                                                       |                                                       |
| ENVIRONMENT                               |                                                                                 |                                                        |                                                       |                                                       |                                                       |
| Operating Temperature                     | -10°C to +70°C                                                                  |                                                        |                                                       |                                                       |                                                       |
| Storage Temperature                       | -40°C to +85°C                                                                  |                                                        |                                                       |                                                       |                                                       |
| Operating Humidity                        | 5 to 95% RH (Non-Condensing)                                                    |                                                        |                                                       |                                                       |                                                       |
| Operating Altitude                        | 0 to 5,000 m (0 to 16,400 ft)                                                   |                                                        |                                                       |                                                       |                                                       |
| MEDICAL RATING                            |                                                                                 |                                                        |                                                       |                                                       |                                                       |
| Float Rating                              | BF                                                                              |                                                        |                                                       |                                                       |                                                       |
| MOPP                                      | 2 × MOPP                                                                        |                                                        |                                                       |                                                       |                                                       |

Dimensions Reference



#### Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: Load at Convection Air Flow, Ta: 35°C).

For MDS-400ADB12, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load with 20CFM Forced Air, Ta: 35°C).

# MDS Enclosed Power Supply

## 24V, 48V Output

# MDS

### HIGHLIGHTS & FEATURES

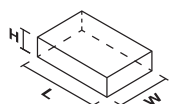
- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Class B EMI; 4<sup>th</sup> Edition Immunity Compliance
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal



### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-200ADB24                                                                    | MDS-250ADB24                                            | MDS-300ADB24                                          | MDS-400ADB24                                          | MDS-300ADB48                                          |
|-------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Output Voltage                            | 24V                                                                             | 24V                                                     | 24V                                                   | 24V                                                   | 48V                                                   |
| Output Current (Max)                      | 5.0A (Convection)<br>8.33A (with 5.5CFM Forced Air)                             | 5.62A (Convection)<br>10.41A (with 10CFM Forced Air)    | 8.75A (Convection)<br>12.5A (with 10CFM Forced Air)   | 16.67A (with 16CFM Forced Air)                        | 4.375A (Convection)<br>6.25A (with 10CFM Forced Air)  |
| Output Power                              | 120W (Convection)<br>200W (with 5.5CFM Forced Air)                              | 150W (Convection)<br>250W (with 10CFM Forced Air)       | 210W (Convection)<br>300W (with 10CFM Forced Air)     | 400W (with 16CFM Forced Air)                          | 210W (Convection)<br>300W (with 10CFM Forced Air)     |
| Load Regulation                           | ± 1%                                                                            |                                                         |                                                       |                                                       |                                                       |
| Ripple & Noise                            | 1% typ. pk-pk Vrated @ Full load                                                |                                                         |                                                       |                                                       |                                                       |
| INPUT                                     |                                                                                 |                                                         |                                                       |                                                       |                                                       |
| Input Voltage Range                       | 90-264Vac                                                                       |                                                         |                                                       |                                                       |                                                       |
| Input Frequency                           | 47-63Hz                                                                         |                                                         |                                                       |                                                       |                                                       |
| Efficiency                                | 92.0% typ. @ 115Vac/60Hz,<br>93.0% typ. @ 230Vac/50Hz                           | 91.85% typ. @ 115Vac/60Hz,<br>92.98% typ. @ 230Vac/50Hz | 93.0% typ. @ 115Vac/60Hz,<br>94.0% typ. @ 230Vac/50Hz | 92.0% typ. @ 115Vac/60Hz,<br>93.0% typ. @ 230Vac/50Hz | 92.5% typ. @ 115Vac/60Hz,<br>93.5% typ. @ 230Vac/50Hz |
| Leakage Current <sup>1)</sup><br>(264Vac) | Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC<br>Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC |                                                         |                                                       |                                                       |                                                       |
| MECHANICAL                                |                                                                                 |                                                         |                                                       |                                                       |                                                       |
| Dimensions (L × W × H)                    | 113.9 × 64.7 × 44.7 mm<br>(4.48" × 2.55" × 1.76")                               | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")         | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")       | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")       | 140 × 88.9 × 44.4 mm<br>(5.51" × 3.50" × 1.75")       |
| Unit Weight                               | 0.35 kg (0.76 lb)                                                               | 0.61 kg (1.35 lb)                                       | 0.61 kg (1.35 lb)                                     | 0.61 kg (1.35 lb)                                     | 0.61 kg (1.35 lb)                                     |
| MTBF <sup>2)</sup>                        | 800,000 hrs                                                                     | 500,000 hrs                                             | 800,000 hrs                                           | 500,000 hrs                                           | 800,000 hrs                                           |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B                                        |                                                         |                                                       |                                                       |                                                       |
| ENVIRONMENT                               |                                                                                 |                                                         |                                                       |                                                       |                                                       |
| Operating Temperature                     | -10°C to +70°C                                                                  |                                                         |                                                       |                                                       |                                                       |
| Storage Temperature                       | -40°C to +85°C                                                                  |                                                         |                                                       |                                                       |                                                       |
| Operating Humidity                        | 5 to 95% RH (Non-Condensing)                                                    |                                                         |                                                       |                                                       |                                                       |
| Operating Altitude                        | 0 to 5,000 m (0 to 16,400 ft)                                                   |                                                         |                                                       |                                                       |                                                       |
| MEDICAL RATING                            |                                                                                 |                                                         |                                                       |                                                       |                                                       |
| Float Rating                              | BF                                                                              |                                                         |                                                       |                                                       |                                                       |
| MOPP                                      | 2 × MOPP                                                                        |                                                         |                                                       |                                                       |                                                       |

#### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: Load at Convection Air Flow, Ta: 35°C).  
For MDS-400ADB24, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load with 10CFM Forced Air, Ta: 35°C).

# MEB Enclosed Power Supply

## 24V, 48V Output

# MEB

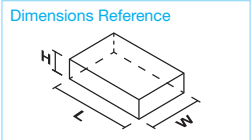


### HIGHLIGHTS & FEATURES

- Up to 1200W in 5" x 8.03" x 1.59" package
- Full power from 90Vac to 264Vac, up to 50°C ambient
- Up to 500K hours MTBF
- 2 x MOPP isolation, Suitable for type BF medical products
- Current sharing and 5V/2A standby output
- Class B Conducted and Radiated EMI
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- PMBus Ver 1.3 supported
- Intelligent fan speed control

### GENERAL SPECIFICATIONS

|                                           |                                                                               | NEW                                               |
|-------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------|
| OUTPUT                                    | MEB-1K2A24T                                                                   | MEB-1K2A48T                                       |
| Output Voltage                            | 24V                                                                           | 48V                                               |
| Output Current (Max)                      | 50.0A                                                                         | 25.0A                                             |
| Output Power                              | 1200W                                                                         | 1200W                                             |
| Load Regulation                           | 2%                                                                            |                                                   |
| Ripple & Noise                            | 1% typ. pk-pk Vrated @ rated load                                             |                                                   |
| INPUT                                     |                                                                               |                                                   |
| Input Voltage Range                       | 85-264Vac                                                                     |                                                   |
| Input Frequency                           | 47-63Hz                                                                       |                                                   |
| Efficiency                                | 90.0% typ. @ 115V/60Hz,<br>93.0% typ. @ 230V/50Hz                             | 91.5% typ. @ 115V/60Hz,<br>94.0% typ. @ 230V/50Hz |
| Leakage Current <sup>1)</sup><br>(264Vac) | Input-PE: < 0.3mA @ NC, < 1mA @ SFC<br>Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC |                                                   |
| MECHANICAL                                |                                                                               |                                                   |
| Dimensions (L x W x H)                    | 204 x 127 x 40.5 mm<br>(8.03" x 5.0" x 1.59")                                 | 204 x 127 x 40.5 mm<br>(8.03" x 5.0" x 1.59")     |
| Unit Weight                               | 1.50 kg (3.30 lb)                                                             | 1.50 kg (3.30 lb)                                 |
| MTBF <sup>2)</sup>                        | 500,000 hrs                                                                   | 500,000 hrs                                       |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B                                      |                                                   |
| ENVIRONMENT                               |                                                                               |                                                   |
| Operating Temperature                     | -20°C to +70°C                                                                |                                                   |
| Storage Temperature                       | -40°C to +85°C                                                                |                                                   |
| Operating Humidity                        | 5 to 95% RH (Non-Condensing)                                                  |                                                   |
| Operating Altitude                        | 0 to 5,000 m (0 to 16,400 ft)                                                 |                                                   |
| MEDICAL RATING                            |                                                                               |                                                   |
| Float Rating                              | BF                                                                            |                                                   |
| MOPP                                      | 2 x MOPP                                                                      |                                                   |



Notes  
1) NC: normal condition, SFC: single fault condition.  
2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 35°C).



# Delta Medical Power Supplies

## Open Frame Power Supply



AR

### MDS



- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Power Good Signal, Remote Sense, Remote inhibit
- 2 × MOPP isolation



AR

### MEP



- Safety approvals to medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Low leakage current (< 70μA Normal & < 210μA Single Fault)
- Over-Voltage/Load/Temperature & Short Circuit protections
- 3 million hours MTBF
- 2 × MOPP isolation



AR

### MEU



- Universal AC input
- Up to 500K hours MTBF
- 2 × MOPP isolation
- Safety approvals to medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Over-Voltage/Load/Temperature & Short Circuit protections

# MDS Open Frame Power Supply

## 12V Output

# MDS



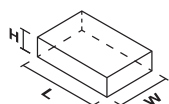
### HIGHLIGHTS & FEATURES

- Universal AC input voltage
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- 2 × MOPP isolation
- High MTBF

### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-040APS12                                   | MDS-065APS12                                    | MDS-100APS12                                  | MDS-100BPS12                                        |
|-------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| Output Voltage                            | 12V                                            | 12V                                             | 12V                                           | 12V                                                 |
| Output Current (Max)                      | 3.33A                                          | 5.42A                                           | 8.33A                                         | 6.67A (Convection)<br>8.33A (with 10CFM Forced Air) |
| Output Power                              | 40W                                            | 65W                                             | 100W                                          | 80W (Convection)<br>100W (with 10CFM Forced Air)    |
| Load Regulation                           | ± 1%                                           |                                                 |                                               |                                                     |
| Ripple & Noise                            | 22.8mV pk-pk @ Full load                       | 21.6mV pk-pk @ Full load                        | 25mV pk-pk @ Full load                        | 76mV pk-pk @ Full load                              |
| INPUT                                     |                                                |                                                 |                                               |                                                     |
| Input Voltage Range                       | 90-264Vac                                      |                                                 |                                               |                                                     |
| Input Frequency                           | 47-63Hz                                        |                                                 |                                               |                                                     |
| Efficiency                                | 86.5% typ.                                     | 87.5% typ.                                      | 89.2% typ.                                    | 87.0% typ.                                          |
| Touch Current <sup>1)</sup><br>(264Vac)   | < 0.1mA @ NC, < 0.3mA @ SFC                    |                                                 |                                               |                                                     |
| Leakage Current <sup>1)</sup><br>(264Vac) | -                                              |                                                 | < 0.15mA @ NC, < 0.3mA @ SFC                  |                                                     |
| MECHANICAL                                |                                                |                                                 |                                               |                                                     |
| Dimensions (L × W × H)                    | 76.2 × 50.8 × 23 mm<br>(3.00" × 2.00" × 0.91") | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25")   |
| Unit Weight                               | 0.08 kg (0.18 lb)                              | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                   |
| MTBF <sup>2)</sup>                        | 3,000,000 hrs                                  | 2,500,000 hrs                                   | 3,000,000 hrs                                 | 1,000,000 hrs                                       |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B       |                                                 |                                               |                                                     |
| ENVIRONMENT                               |                                                |                                                 |                                               |                                                     |
| Operating Temperature                     | -10°C to +70°C                                 |                                                 |                                               |                                                     |
| Storage Temperature                       | -40°C to +85°C                                 |                                                 |                                               |                                                     |
| Operating Humidity                        | 10 to 95% RH (Non-Condensing)                  |                                                 |                                               |                                                     |
| Operating Altitude                        | 0 to 3,000 m (0 to 9,840 ft)                   |                                                 |                                               | 0 to 5,000 m (0 to 16,400 ft)                       |
| MEDICAL RATING                            |                                                |                                                 |                                               |                                                     |
| Float Rating                              | BF                                             |                                                 |                                               |                                                     |
| MOPP                                      | 2 × MOPP                                       |                                                 |                                               |                                                     |

Dimensions Reference



Notes

- 1) NC: normal condition, SFC: single fault condition.  
2) MTBF as per Telcordia SR-332.

# MDS Open Frame Power Supply

## 12V Output

# MDS



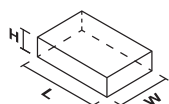
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Class B EMI; 4<sup>th</sup> Edition Immunity Compliance
- Enclosed cover design option available
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-200APB12                                                                    | MDS-250APB12                                           | MDS-300APB12                                          | MDS-400APB12                                          |
|-------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Output Voltage                            | 12V                                                                             | 12V                                                    | 12V                                                   | 12V                                                   |
| Output Current (Max)                      | 10.83A (Convection)<br>16.67A (with 8.5CFM Forced Air)                          | 12.5A (Convection)<br>20.84A (with 10CFM Forced Air)   | 18.33A (Convection)<br>25.0A (with 10CFM Forced Air)  | 33.33A (with 16CFM Forced Air)                        |
| Output Power                              | 130W (Convection)<br>200W (with 8.5CFM Forced Air)                              | 150W (Convection)<br>250W (with 10CFM Forced Air)      | 220W (Convection)<br>300W (with 10CFM Forced Air)     | 400W (with 16CFM Forced Air)                          |
| Load Regulation                           | ± 2.5%                                                                          | ± 1%                                                   |                                                       |                                                       |
| Ripple & Noise                            | 1% typ. pk-pk Vrated @ Full load                                                |                                                        |                                                       | 150mV pk-pkV rated<br>@ Full load                     |
| INPUT                                     |                                                                                 |                                                        |                                                       |                                                       |
| Input Voltage Range                       | 90-264Vac                                                                       |                                                        |                                                       |                                                       |
| Input Frequency                           | 47-63Hz                                                                         |                                                        |                                                       |                                                       |
| Efficiency                                | 91.0% typ. @ 115Vac/60Hz,<br>93.0% typ. @ 230Vac/50Hz                           | 89.45% typ. @ 115Vac/60Hz,<br>90.5% typ. @ 230Vac/50Hz | 91.3% typ. @ 115Vac/60Hz,<br>92.6% typ. @ 230Vac/50Hz | 89.5% typ. @ 115Vac/60Hz,<br>91.5% typ. @ 230Vac/50Hz |
| Leakage Current <sup>1)</sup><br>(264Vac) | Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC<br>Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC |                                                        |                                                       |                                                       |
| MECHANICAL                                |                                                                                 |                                                        |                                                       |                                                       |
| Dimensions (L × W × H)                    | 101.9 × 51.1 × 36.1 mm<br>(4.01" × 2.01" × 1.42")                               | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")      | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")     | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")     |
| Unit Weight                               | 0.20 kg (0.44 lb)                                                               | 0.41 kg (0.90 lb)                                      | 0.41 kg (0.90 lb)                                     | 0.41 kg (0.90 lb)                                     |
| MTBF <sup>2)</sup>                        | 800,000 hrs                                                                     | 500,000 hrs                                            | 800,000 hrs                                           | 500,000 hrs                                           |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B                                        |                                                        |                                                       |                                                       |
| ENVIRONMENT                               |                                                                                 |                                                        |                                                       |                                                       |
| Operating Temperature                     | -10°C to +70°C                                                                  |                                                        |                                                       |                                                       |
| Storage Temperature                       | -40°C to +85°C                                                                  |                                                        |                                                       |                                                       |
| Operating Humidity                        | 5 to 95% RH (Non-Condensing)                                                    |                                                        |                                                       |                                                       |
| Operating Altitude                        | 0 to 5,000 m (0 to 16,400 ft)                                                   |                                                        |                                                       |                                                       |
| MEDICAL RATING                            |                                                                                 |                                                        |                                                       |                                                       |
| Float Rating                              | BF                                                                              |                                                        |                                                       |                                                       |
| MOPP                                      | 2 × MOPP                                                                        |                                                        |                                                       |                                                       |

#### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).  
For MDS-400APB12, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load with 16CFM Forced Air, Ta: 35°C).

# 15V Output

## MDS



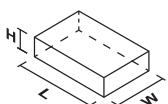
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- 2 × MOPP isolation
- High MTBF

### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-040APS15                                   | MDS-065APS15                                    | MDS-100APS15                                  | MDS-100BPS15                                      |
|-------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
| Output Voltage                            | 15V                                            | 15V                                             | 15V                                           | 15V                                               |
| Output Current (Max)                      | 2.67A                                          | 4.2A                                            | 6.67A                                         | 5.3A (Convection)<br>6.7A (with 10CFM Forced Air) |
| Output Power                              | 40W                                            | 63W                                             | 100W                                          | 80W (Convection)<br>100W (with 10CFM Forced Air)  |
| Load Regulation                           | ± 1%                                           |                                                 |                                               |                                                   |
| Ripple & Noise                            | 16.4mV pk-pk @ Full load                       | 18mV pk-pk @ Full load                          | 35.2mV pk-pk @ Full load                      | 51.2mV pk-pk @ Full load                          |
| INPUT                                     |                                                |                                                 |                                               |                                                   |
| Input Voltage Range                       | 90-264Vac                                      |                                                 |                                               |                                                   |
| Input Frequency                           | 47-63Hz                                        |                                                 |                                               |                                                   |
| Efficiency                                | 87.2% typ.                                     | 89.2% typ.                                      | 90.6% typ.                                    | 88.2% typ.                                        |
| Touch Current <sup>1)</sup><br>(264Vac)   | < 0.1mA @ NC, < 0.3mA @ SFC                    |                                                 |                                               |                                                   |
| Leakage Current <sup>1)</sup><br>(264Vac) | -                                              |                                                 | < 0.15mA @ NC, < 0.3mA @ SFC                  |                                                   |
| MECHANICAL                                |                                                |                                                 |                                               |                                                   |
| Dimensions (L × W × H)                    | 76.2 × 50.8 × 23 mm<br>(3.00" × 2.00" × 0.91") | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25") |
| Unit Weight                               | 0.08 kg (0.18 lb)                              | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                 |
| MTBF <sup>2)</sup>                        | 3,000,000 hrs                                  | 2,500,000 hrs                                   | 3,000,000 hrs                                 | 1,000,000 hrs                                     |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B       |                                                 |                                               |                                                   |
| ENVIRONMENT                               |                                                |                                                 |                                               |                                                   |
| Operating Temperature                     | -10°C to +70°C                                 |                                                 |                                               |                                                   |
| Storage Temperature                       | -40°C to +85°C                                 |                                                 |                                               |                                                   |
| Operating Humidity                        | 10 to 95% RH (Non-Condensing)                  |                                                 |                                               |                                                   |
| Operating Altitude                        | 0 to 3,000 m (0 to 9,840 ft)                   |                                                 |                                               | 0 to 5,000 m (0 to 16,400 ft)                     |
| MEDICAL RATING                            |                                                |                                                 |                                               |                                                   |
| Float Rating                              | BF                                             |                                                 |                                               |                                                   |
| MOPP                                      | 2 × MOPP                                       |                                                 |                                               |                                                   |

Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.

# MDS Open Frame Power Supply

## 18V Output

# MDS



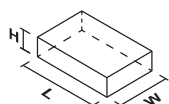
### HIGHLIGHTS & FEATURES

- Universal AC input voltage
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Power Good signal, Remote Sense, Remote Inhibit (only MDS-300APB18)
- 2 × MOPP isolation

### GENERAL SPECIFICATIONS

| OUTPUT                                 | MDS-040APS18                                   | MDS-065APS18                                    | MDS-100APS18                                  | MDS-100BPS18                                      | MDS-300APB18                                                                         |
|----------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------|
| Output Voltage                         | 18V                                            | 18V                                             | 18V                                           | 18V                                               | 18V                                                                                  |
| Output Current (Max)                   | 2.22A                                          | 3.61A                                           | 5.55A                                         | 4.4A (Convection)<br>5.5A (with 10CFM Forced Air) | 12.22A (Convection)<br>16.66A (with 10CFM Forced Air)                                |
| Output Power                           | 40W                                            | 65W                                             | 100W                                          | 80W (Convection)<br>100W (with 10CFM Forced Air)  | 220W (Convection)<br>300W (with 10CFM Forced Air)                                    |
| Load Regulation                        | ± 1%                                           |                                                 |                                               |                                                   |                                                                                      |
| Ripple & Noise                         | 14.8mV pk-pk @ Full load                       | 20.8mV pk-pk @ Full load                        | 28.8mV pk-pk @ Full load                      | 88mV pk-pk @ Full load                            | 1% typ. pk-pk Vrated @ Full load                                                     |
| INPUT                                  |                                                |                                                 |                                               |                                                   |                                                                                      |
| Input Voltage Range                    | 90-264Vac                                      |                                                 |                                               |                                                   |                                                                                      |
| Input Frequency                        | 47-63Hz                                        |                                                 |                                               |                                                   |                                                                                      |
| Efficiency                             | 86.9% typ.                                     | 87.7% typ.                                      | 91.24% typ.                                   | 87.6% typ.                                        | 92.5% typ. @ 115Vac/60Hz<br>93.5% typ. @ 230Vac/50Hz                                 |
| Touch Current <sup>1)</sup> (264Vac)   | < 0.1mA @ NC, < 0.3mA @ SFC                    |                                                 |                                               |                                                   | -                                                                                    |
| Leakage Current <sup>1)</sup> (264Vac) | -                                              |                                                 | < 0.15mA @ NC, < 0.3mA @ SFC                  |                                                   | Input-PE: < 0.1mA @ NC,<br>< 0.3mA @ SFC<br>Output-PE: < 0.1mA @ NC<br>< 0.5mA @ SFC |
| MECHANICAL                             |                                                |                                                 |                                               |                                                   |                                                                                      |
| Dimensions (L × W × H)                 | 76.2 × 50.8 × 23 mm<br>(3.00" × 2.00" × 0.91") | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25") | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")                                    |
| Unit Weight                            | 0.08 kg (0.18 lb)                              | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                 | 0.41 kg (0.90 lb)                                                                    |
| MTBF <sup>2)</sup>                     | 3,000,000 hrs                                  | 2,500,000 hrs                                   | 3,000,000 hrs                                 | 1,000,000 hrs                                     | 800,000 hrs                                                                          |
| EMC & Emissions                        | EN 55011/EN 55032, FCC Title 47: Class B       |                                                 |                                               |                                                   |                                                                                      |
| ENVIRONMENT                            |                                                |                                                 |                                               |                                                   |                                                                                      |
| Operating Temperature                  | -10°C to +70°C                                 |                                                 |                                               |                                                   |                                                                                      |
| Storage Temperature                    | -40°C to +85°C                                 |                                                 |                                               |                                                   |                                                                                      |
| Operating Humidity                     | 10 to 95% RH (Non-Condensing)                  |                                                 |                                               |                                                   | 5 to 95% RH (Non-Condensing)                                                         |
| Operating Altitude                     | 0 to 3,000 m (0 to 9,840 ft)                   |                                                 |                                               | 0 to 5,000 m (0 to 16,400 ft)                     |                                                                                      |
| MEDICAL RATING                         |                                                |                                                 |                                               |                                                   |                                                                                      |
| Float Rating                           | BF                                             |                                                 |                                               |                                                   |                                                                                      |
| MOPP                                   | 2 × MOPP                                       |                                                 |                                               |                                                   |                                                                                      |

Dimensions Reference



#### Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332.

For MDS-300APB18, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).



# 19V, 24V Output

## MDS



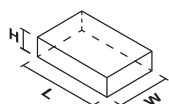
### HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Up to 300W with convection cooling, 400W with forced air
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Safety approvals for medical and IT applications
- High MTBF
- 2 × MOPP isolation
- Remote sense

### GENERAL SPECIFICATIONS

| OUTPUT                                  | MDS-400AUS19                                         | MDS-400AUS24                                          |
|-----------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Output Voltage                          | 19V                                                  | 24V                                                   |
| Output Current (Max)                    | 15.8A (Convection)<br>21.1A (with 200LFM Forced Air) | 12.5A (Convection)<br>16.67A (with 200LFM Forced Air) |
| Output Power                            | 300W (Convection)<br>40W (with 200LFM Forced Air)    | 300W (Convection)<br>400W (with 200LFM Forced Air)    |
| Load Regulation                         | ± 2%                                                 |                                                       |
| Ripple & Noise                          | 100.8 mV pk-pk @ Full load                           | 123.2mV pk-pk @ Full load                             |
| INPUT                                   |                                                      |                                                       |
| Input Voltage Range                     | 90-264Vac                                            |                                                       |
| Input Frequency                         | 47-63Hz                                              |                                                       |
| Efficiency                              | 91.38% typ.                                          | 91.94% typ.                                           |
| Touch Current <sup>1)</sup><br>(264Vac) | < 0.1mA @ NC, < 0.3mA @ SFC                          |                                                       |
| MECHANICAL                              |                                                      |                                                       |
| Dimensions (L × W × H)                  | 198 × 97 × 41.5 mm<br>(7.80" × 3.82" × 1.63")        | 198 × 97 × 41.5 mm<br>(7.80" × 3.82" × 1.63")         |
| Unit Weight                             | 0.91 kg (2.01 lb)                                    | 0.91 kg (2.01 lb)                                     |
| MTBF <sup>2)</sup>                      | 2,000,000 hrs                                        | 2,000,000 hrs                                         |
| EMC & Emissions                         | EN 55011/EN 55032, FCC Title 47: Class B             |                                                       |
| ENVIRONMENT                             |                                                      |                                                       |
| Operating Temperature                   | -10°C to +70°C                                       |                                                       |
| Storage Temperature                     | -40°C to +85°C                                       |                                                       |
| Operating Humidity                      | 10 to 95% RH (Non-Condensing)                        |                                                       |
| Operating Altitude                      | 0 to 3,000 m (0 to 9,840 ft)                         |                                                       |
| MEDICAL RATING                          |                                                      |                                                       |
| Float Rating                            | B                                                    |                                                       |
| MOPP                                    | 2 × MOPP                                             |                                                       |

#### Dimensions Reference



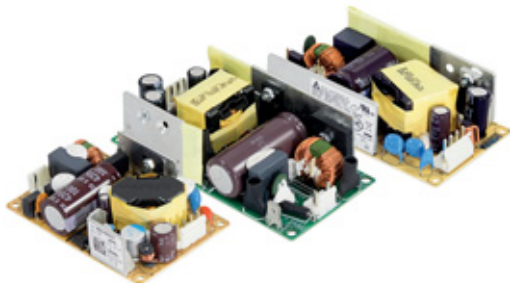
#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.

# MDS Open Frame Power Supply

## 24V Output

# MDS



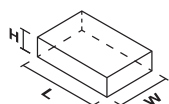
### HIGHLIGHTS & FEATURES

- Universal AC input voltage
- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- 2 × MOPP isolation
- High MTBF

### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-040APS24                                   | MDS-065APS24                                    | MDS-100APS24S                                 | MDS-100BPS24S                                     |
|-------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
| Output Voltage                            | 24V                                            | 24V                                             | 24V                                           | 24V                                               |
| Output Current (Max)                      | 1.67A                                          | 2.71A                                           | 4.17A                                         | 3.3A (Convection)<br>4.2A (with 10CFM Forced Air) |
| Output Power                              | 40W                                            | 65W                                             | 100W                                          | 80W (Convection)<br>100W (with 10CFM Forced Air)  |
| Load Regulation                           | ± 1%                                           |                                                 |                                               |                                                   |
| Ripple & Noise                            | 34mV pk-pk @ Full load                         | 32.8mV pk-pk @ Full load                        | 55.2 mV pk-pk @ Full load                     | 58.4mV pk-pk @ Full load                          |
| INPUT                                     |                                                |                                                 |                                               |                                                   |
| Input Voltage Range                       | 90-264Vac                                      |                                                 |                                               |                                                   |
| Input Frequency                           | 47-63Hz                                        |                                                 |                                               |                                                   |
| Efficiency                                | 86.3% typ.                                     | 88.4% typ.                                      | 91.08% typ.                                   | 89.3% typ.                                        |
| Touch Current <sup>1)</sup><br>(264Vac)   | < 0.1mA @ NC, < 0.3mA @ SFC                    |                                                 |                                               |                                                   |
| Leakage Current <sup>1)</sup><br>(264Vac) | -                                              |                                                 | < 0.15mA @ NC, < 0.3mA @ SFC                  |                                                   |
| MECHANICAL                                |                                                |                                                 |                                               |                                                   |
| Dimensions (L × W × H)                    | 76.2 × 50.8 × 23 mm<br>(3.00" × 2.00" × 0.91") | 101.6 × 50.8 × 30 mm<br>(4.00" × 2.00" × 1.18") | 127 × 76.2 × 31 mm<br>(5.00" × 3.00" × 1.22") | 101.6 × 50.8 × 31.8 mm<br>(4.00" × 2.00" × 1.25") |
| Unit Weight                               | 0.08 kg (0.18 lb)                              | 0.13 kg (0.29 lb)                               | 0.21 kg (0.46 lb)                             | 0.15 kg (0.33 lb)                                 |
| MTBF <sup>2)</sup>                        | 3,000,000 hrs                                  | 2,500,000 hrs                                   | 3,000,000 hrs                                 | 1,000,000 hrs                                     |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B       |                                                 |                                               |                                                   |
| ENVIRONMENT                               |                                                |                                                 |                                               |                                                   |
| Operating Temperature                     | -10°C to +70°C                                 |                                                 |                                               |                                                   |
| Storage Temperature                       | -40°C to +85°C                                 |                                                 |                                               |                                                   |
| Operating Humidity                        | 10 to 95% RH (Non-Condensing)                  |                                                 |                                               |                                                   |
| Operating Altitude                        | 0 to 3,000 m (0 to 9,840 ft)                   |                                                 |                                               | 0 to 5,000 m (0 to 16,400 ft)                     |
| MEDICAL RATING                            |                                                |                                                 |                                               |                                                   |
| Float Rating                              | BF                                             |                                                 |                                               |                                                   |
| MOPP                                      | 2 × MOPP                                       |                                                 |                                               |                                                   |

#### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332.

# 24V, 48V Output

## MDS

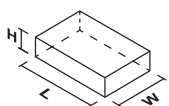
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Enclosed cover design option available
- Suitable for type BF medical product
- 2 × MOPP isolation
- Power Good signal

### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-200APB24                                                                    | MDS-250APB24                                            | MDS-300APB24                                           | MDS-400APB24                                         | MDS-300APB48                                          |
|-------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Output Voltage                            | 24V                                                                             | 24V                                                     | 24V                                                    | 24V                                                  | 48V                                                   |
| Output Current (Max)                      | 5.83A (Convection)<br>8.33A (with 5.5CFM<br>Forced Air)                         | 6.25A (Convection)<br>10.41A (with 10CFM<br>Forced Air) | 10.0A (Convection)<br>12.5A (with 10CFM<br>Forced Air) | 16.66A (with 10CFM<br>Forced Air)                    | 5.0A (Convection)<br>6.25A (with 10CFM<br>Forced Air) |
| Output Power                              | 140W (Convection)<br>200W (with 5.5CFM<br>Forced Air)                           | 150W (Convection)<br>250W (with 10CFM<br>Forced Air)    | 240W (Convection)<br>300W (with 10CFM<br>Forced Air)   | 400W (with 10CFM<br>Forced Air)                      | 240W (Convection)<br>300W (with 10CFM<br>Forced Air)  |
| Load Regulation                           | ± 2.5%                                                                          | ± 1%                                                    |                                                        |                                                      |                                                       |
| Ripple & Noise                            | 1% typ. pk-pk Vrated @ Full load                                                |                                                         |                                                        |                                                      |                                                       |
| INPUT                                     |                                                                                 |                                                         |                                                        |                                                      |                                                       |
| Input Voltage Range                       | 90-264Vac                                                                       |                                                         |                                                        |                                                      |                                                       |
| Input Frequency                           | 47-63Hz                                                                         |                                                         |                                                        |                                                      |                                                       |
| Efficiency                                | 92.0% typ. @ 115Vac/60Hz<br>93.0% typ. @ 230vac/50Hz                            | 91.85% typ. @ 15Vac/60Hz<br>92.98% typ. @ 230vac/50Hz   | 93.0% typ. @ 115Vac/60Hz<br>94.0% typ. @ 230vac/50Hz   | 92.0% typ. @ 115Vac/60Hz<br>93.0% typ. @ 230vac/50Hz | 92.5% typ. @ 115Vac/60Hz<br>93.5% typ. @ 230Vac/50Hz  |
| Leakage Current <sup>1)</sup><br>(264Vac) | Input-PE: < 0.1mA @ NC, < 0.3mA @ SFC<br>Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC |                                                         |                                                        |                                                      |                                                       |
| MECHANICAL                                |                                                                                 |                                                         |                                                        |                                                      |                                                       |
| Dimensions (L × W × H)                    | 101.9 × 51.1 × 36.1 mm<br>(4.01" × 2.01" × 1.42")                               | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")       | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")      | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")    | 127.3 × 76.5 × 36.1 mm<br>(5.01" × 3.01" × 1.42")     |
| Unit Weight                               | 0.20 kg (0.44 lb)                                                               | 0.41 kg (0.90 lb)                                       | 0.41 kg (0.90 lb)                                      | 0.41 kg (0.90 lb)                                    | 0.41 kg (0.90 lb)                                     |
| MTBF <sup>2)</sup>                        | 800,000 hrs                                                                     | 500,000 hrs                                             | 800,000 hrs                                            | 500,000 hrs                                          | 800,000 hrs                                           |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B                                        |                                                         |                                                        |                                                      |                                                       |
| ENVIRONMENT                               |                                                                                 |                                                         |                                                        |                                                      |                                                       |
| Operating Temperature                     | -10°C to +70°C                                                                  |                                                         |                                                        |                                                      |                                                       |
| Storage Temperature                       | -40°C to +85°C                                                                  |                                                         |                                                        |                                                      |                                                       |
| Operating Humidity                        | 5 to 95% RH (Non-Condensing)                                                    |                                                         |                                                        |                                                      |                                                       |
| Operating Altitude                        | 0 to 5,000 m (0 to 16,400 ft)                                                   |                                                         |                                                        |                                                      |                                                       |
| MEDICAL RATING                            |                                                                                 |                                                         |                                                        |                                                      |                                                       |
| Float Rating                              | BF                                                                              |                                                         |                                                        |                                                      |                                                       |
| MOPP                                      | 2 × MOPP                                                                        |                                                         |                                                        |                                                      |                                                       |

#### Dimensions Reference



#### Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load for Convection, Ta: 35°C).

For MDS-400APB24, MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load with 10CFM Forced Air, Ta: 35°C).

# MDS Open Frame Power Supply

## 5.1V/12V/-15V/15V Output

MDS



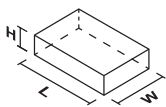
### HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low leakage current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- 1.4 million hours MTBF
- 2 × MOPP isolation

### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-100AP401                                     |                                                  |                                                  |                                                  |
|-------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| Output Voltage                            | 5.1V                                             | 12V                                              | -15V                                             | 15V                                              |
| Output Current (Max)                      | 4.0A (Convection)<br>8.0A (with 5CFM Forced Air) | 2.0A (Convection)<br>3.0A (with 5CFM Forced Air) | 0.6A (Convection)<br>0.8A (with 5CFM Forced Air) | 0.8A (Convection)<br>0.8A (with 5CFM Forced Air) |
| Output Power                              | 65W (Convection)<br>100W (with 5CFM Forced Air)  |                                                  |                                                  |                                                  |
| Load Regulation                           | ± 2%                                             | ± 1%                                             | ± 3%                                             |                                                  |
| Ripple & Noise                            | 36.8 mV pk-pk @ Full load                        | 76.8 mV pk-pk @ Full load                        | 12.8 mV pk-pk @ Full load                        | 20.8 mV pk-pk @ Full load                        |
| INPUT                                     |                                                  |                                                  |                                                  |                                                  |
| Input Voltage Range                       | 90-264Vac                                        |                                                  |                                                  |                                                  |
| Input Frequency                           | 47-63Hz                                          |                                                  |                                                  |                                                  |
| Efficiency                                | 79.34% typ.                                      |                                                  |                                                  |                                                  |
| Leakage Current <sup>1)</sup><br>(264Vac) | < 0.1mA @ NC, < 0.3mA @ SFC                      |                                                  |                                                  |                                                  |
| MECHANICAL                                |                                                  |                                                  |                                                  |                                                  |
| Dimensions (L × W × H)                    | 127 × 76.2 × 30.5 mm<br>(5.00" × 3.00" × 1.20")  |                                                  |                                                  |                                                  |
| Unit Weight                               | 0.25 kg (0.55 lb)                                |                                                  |                                                  |                                                  |
| MTBF <sup>2)</sup>                        | 1,400,000 hrs                                    |                                                  |                                                  |                                                  |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B         |                                                  |                                                  |                                                  |
| ENVIRONMENT                               |                                                  |                                                  |                                                  |                                                  |
| Operating Temperature                     | -10°C to +70°C                                   |                                                  |                                                  |                                                  |
| Storage Temperature                       | -40°C to +85°C                                   |                                                  |                                                  |                                                  |
| Operating Humidity                        | 5 to 95% RH (Non-Condensing)                     |                                                  |                                                  |                                                  |
| Operating Altitude                        | 0 to 5,000 m (0 to 16,400 ft)                    |                                                  |                                                  |                                                  |
| MEDICAL RATING                            |                                                  |                                                  |                                                  |                                                  |
| Float Rating                              | B                                                |                                                  |                                                  |                                                  |
| MOPP                                      | 2 × MOPP                                         |                                                  |                                                  |                                                  |

Dimensions Reference



- Notes
- 1) NC: normal condition, SFC: single fault condition.
  - 2) MTBF as per Telcordia SR-332.

# MEP Open Frame Power Supply

## 15V Output

MEP

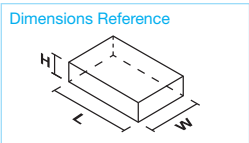


### HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Low leakage current (< 70µA Normal & < 210µA Single Fault)
- Over-Voltage/Load/Temperature & Short Circuit protections
- 3 million hours MTBF
- 2 × MOPP isolation

### GENERAL SPECIFICATIONS

|                                        | NEW                                            |
|----------------------------------------|------------------------------------------------|
| OUTPUT                                 | MEP-25A15J                                     |
| Output Voltage                         | 15V                                            |
| Output Current (Max)                   | 1.67A                                          |
| Output Power                           | 25W                                            |
| Load Regulation                        | ± 0.5%                                         |
| Ripple & Noise                         | 120mV pk-pk                                    |
| INPUT                                  |                                                |
| Input Voltage Range                    | 90-264Vac                                      |
| Input Frequency                        | 47-63Hz                                        |
| Efficiency                             | 86.5% typ.                                     |
| Leakage Current <sup>1)</sup> (240Vac) | < 70µA @ NC, < 210µA @ SFC                     |
| MECHANICAL                             |                                                |
| Dimensions (L × W × H)                 | 76.2 × 50.8 × 23 mm<br>(3.00" × 2.00" × 0.91") |
| Unit Weight                            | 0.07 kg (0.15 lb)                              |
| MTBF <sup>2)</sup>                     | 3,000,000 hrs                                  |
| EMC & Emissions                        | EN 55011/EN 55032, FCC Title 47: Class B       |
| ENVIRONMENT                            |                                                |
| Operating Temperature                  | -10°C to +70°C                                 |
| Storage Temperature                    | -40°C to +85°C                                 |
| Operating Humidity                     | 10 to 95% RH (Non-Condensing)                  |
| Operating Altitude                     | 0 to 5,000 m (0 to 16,400 ft)                  |
| MEDICAL RATING                         |                                                |
| Float Rating                           | BF                                             |
| MOPP                                   | 2 × MOPP                                       |



Notes  
1) NC: normal condition, SFC: single fault condition.  
2) MTBF as per Telcordia SR-332.



# MEU Open Frame Power Supply

## 24V, 48V Output

MEU



AR

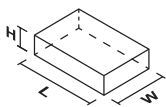
### HIGHLIGHTS & FEATURES

- Up to 600W convection cooled
- Full power from 90Vac to 264Vac, up to 50°C ambient
- Up to 500K hours MTBF
- 2 × MOPP isolation, Suitable for type BF medical products
- 5V/1A standby output and 12V/0.6A fan output for system
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- PMBus Ver 1.3 supported

### GENERAL SPECIFICATIONS

|                               |                                                                               | NEW                                                  |
|-------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------|
| OUTPUT                        | MEU-600C24T                                                                   | MEU-600C48T                                          |
| Output Voltage                | 24V                                                                           | 48V                                                  |
| Output Current (Max)          | 25.0A                                                                         | 12.5A                                                |
| Output Power                  | 600W                                                                          | 600W                                                 |
| Load Regulation               | 2%                                                                            |                                                      |
| Ripple & Noise                | 1% typ. pk-pk Vrated @ Rated load                                             | 1% typ. pk-pk Vrated @ Rated load                    |
| INPUT                         |                                                                               |                                                      |
| Input Voltage Range           | 85-264Vac                                                                     | 85-264Vac                                            |
| Input Frequency               | 47-63Hz                                                                       |                                                      |
| Efficiency                    | 92.5% typ. @ 115Vac/60Hz<br>94.0% typ. @ 230Vac/50Hz                          | 94.0% typ. @ 115Vac/60Hz<br>95.0% typ. @ 230Vac/50Hz |
| Touch Current <sup>1)</sup>   | -                                                                             |                                                      |
| Leakage Current <sup>1)</sup> | Input-PE: < 0.3mA @ NC, < 1mA @ SFC<br>Output-PE: < 0.1mA @ NC, < 0.5mA @ SFC |                                                      |
| MECHANICAL                    |                                                                               |                                                      |
| Dimensions (L × W × H)        | 203.2 × 127 × 40 mm<br>(8.00" × 5.00" × 1.57")                                | 203.2 × 127 × 40 mm<br>(8.00" × 5.00" × 1.57")       |
| Unit Weight                   | 1.30 kg (2.87 lb)                                                             | 1.30 kg (2.87 lb)                                    |
| MTBF <sup>2)</sup>            | 500,000 hrs                                                                   | 500,000 hrs                                          |
| EMC & Emissions               | EN 55011/EN 55032, FCC Title 47: Class B                                      |                                                      |
| ENVIRONMENT                   |                                                                               |                                                      |
| Operating Temperature         | -20°C to +70°C                                                                |                                                      |
| Storage Temperature           | -40°C to +85°C                                                                |                                                      |
| Operating Humidity            | 5 to 95% RH (Non-Condensing)                                                  |                                                      |
| Operating Altitude            | 0 to 5,000 m (0 to 16,400 ft)                                                 |                                                      |
| MEDICAL RATING                |                                                                               |                                                      |
| Float Rating                  | BF                                                                            |                                                      |
| MOPP                          | 2 × MOPP                                                                      |                                                      |

#### Dimensions Reference



- Notes
- 1) NC: normal condition, SFC: single fault condition.
  - 2) MTBF as per Telcordia SR-332.



Enclosed Power Supply

Open Frame Power Supply

ATX Power Supply

Configurable Power Supply

Adapter

# Delta Medical Power Supplies

## ATX Power Supply



AR

### MDS

- Universal AC input voltage range
- Safety approvals to medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Suitable for type BF patient access applications
- ATX 12V standard function & form factor
- Maximum output power of 350 watts
- Built-in active PFC



# MDS ATX Power Supply

## ATX Multiple Output

# MDS



AR

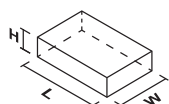
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- IEC 60601-1 3.1 Ed. (Medical) & IEC 60950-1 (ITE) approvals
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Suitable for type BF patient access applications
- ATX 12V standard function & form factor
- Maximum output power of 350 watts
- Built-in active PFC

### GENERAL SPECIFICATIONS

| OUTPUT                        | MDS-350AD701                                   |      |                   |                   |                   |       |          |
|-------------------------------|------------------------------------------------|------|-------------------|-------------------|-------------------|-------|----------|
| Output Voltage                | +3.3V                                          | +5V  | +5V <sub>SB</sub> | +12V <sub>1</sub> | +12V <sub>2</sub> | -12V  | -5V      |
| Output Current (Nom)          | 8.0A                                           | 9.0A | 1.25A             | 8.0A              | 8.0A              | 0.25A | 0.1A     |
| Output Power                  | 350W                                           |      |                   |                   |                   |       |          |
| Load Regulation               | ± 5%                                           |      |                   |                   |                   | ± 10% |          |
| Ripple & Noise                | < 50mVpp                                       |      | < 150mVpp         | < 120mVpp         |                   |       | < 50mVpp |
| INPUT                         |                                                |      |                   |                   |                   |       |          |
| Input Voltage Range           | 90-264Vac                                      |      |                   |                   |                   |       |          |
| Input Frequency               | 47-63Hz                                        |      |                   |                   |                   |       |          |
| Efficiency                    | 82% @ 115Vac/60Hz, 85% @ 230Vac/50Hz           |      |                   |                   |                   |       |          |
| Leakage Current <sup>1)</sup> | < 0.1mA @ NC, < 0.3mA @ SFC                    |      |                   |                   |                   |       |          |
| MECHANICAL                    |                                                |      |                   |                   |                   |       |          |
| Dimensions (L × W × H)        | 100 × 194 × 40.5 mm<br>(3.94" × 7.64" × 1.59") |      |                   |                   |                   |       |          |
| Unit Weight                   | 1.20 kg (2.65 lb)                              |      |                   |                   |                   |       |          |
| MTBF <sup>2)</sup>            | 500,000 hrs                                    |      |                   |                   |                   |       |          |
| EMC & Emissions               | EN 55011/EN 55032, FCC Title 47: Class B       |      |                   |                   |                   |       |          |
| ENVIRONMENT                   |                                                |      |                   |                   |                   |       |          |
| Operating Temperature         | 0°C to +50°C                                   |      |                   |                   |                   |       |          |
| Storage Temperature           | -40°C to +85°C                                 |      |                   |                   |                   |       |          |
| Operating Humidity            | 5 to 95% RH (Non-Condensing)                   |      |                   |                   |                   |       |          |
| Operating Altitude            | 0 to 5,000 m (0 to 16,400 ft)                  |      |                   |                   |                   |       |          |
| MEDICAL RATING                |                                                |      |                   |                   |                   |       |          |
| Float Rating                  | BF                                             |      |                   |                   |                   |       |          |
| MOPP                          | 2 × MOPP                                       |      |                   |                   |                   |       |          |

#### Dimensions Reference



#### Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 35°C).

# Delta Medical Power Supplies

## Configurable Power Supply



AR

### MEG

- Compact size and High Power Density
- 2 × MOPP isolation
- Output selectable from 2Vdc to 60Vdc
- Optional CV/CC Version on demand
- Normal and Reversed Option for Global Remote On/Off
- Analog and Digital Voltage Trimming
- PMBus Ver 1.3 Supported





# MEG Configurable Power Supply

MEG



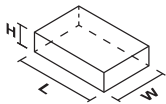
## HIGHLIGHTS & FEATURES

- Compact size and High Power Density
- 2 × MOPP isolation
- Output selectable from 2Vdc to 60Vdc
- Optional CV/CC Version on demand
- Normal and Reversed Option for Global Remote On/Off
- Analog and Digital Voltage Trimming
- PMBus Ver 1.3 Supported
- Optional RS485/RS232/USB Communication Adapters

## GENERAL SPECIFICATIONS

|                                       | COMING SOON                                      | NEW                                             |
|---------------------------------------|--------------------------------------------------|-------------------------------------------------|
| OUTPUT                                | MEG-1K2A4                                        | MEG-2K1A6                                       |
| Output Slots                          | 4 Slots                                          | 6 Slots                                         |
| Output Module                         | Single Slot / Triple Slot                        | Single Slot / Triple Slot                       |
| Output Numbers                        | Single Output / Dual Output                      | Single Output / Dual Output                     |
| Output Voltage                        | 2V-60V                                           | 2V-60V                                          |
| Output Power (Max)                    | 1,200W                                           | 2,100W                                          |
| Line Regulation                       | ± 0.5%                                           |                                                 |
| Load Regulation                       | ± 1%                                             |                                                 |
| Ripple & Noise                        | < 1% Vrated pk-pk or 100mV, which is larger      |                                                 |
| Hold-up Time                          | 12ms @ 115Vac                                    |                                                 |
| Dynamic Response                      | ± 5% @ with 50-100% load change                  |                                                 |
| Remote Sense                          | Up to 500mV compensation for voltage drop across |                                                 |
| INPUT                                 |                                                  |                                                 |
| Input Voltage Range                   | 90-264Vac                                        |                                                 |
| Input Frequency                       | 47-63Hz                                          |                                                 |
| Input Current                         | < 8.5A                                           | < 15A                                           |
| Input Surge Voltage (Max)             | 300Vac for 100ms                                 |                                                 |
| Efficiency                            | 92% @ 115Vac, 93% @ 230Vac                       |                                                 |
| Inrush Current                        | 40A @ 230Vac, Cold Start                         |                                                 |
| Power Factor                          | > 0.95 @ 115V/50Hz & 230V/50Hz, Full load        |                                                 |
| Patient Leakage Current <sup>1)</sup> | < 0.1mA @ NC, < 0.5mA @ SFC                      |                                                 |
| Earth Leakage Current <sup>1)</sup>   | < 0.3mA @ NC, < 1mA @ SFC                        |                                                 |
| MECHANICAL                            |                                                  |                                                 |
| Dimensions (L x W x H)                | 254 x 88.9 x 40.5 mm<br>(10.00" x 3.50" x 1.59") | 254 x 127 x 40.5 mm<br>(10.00" x 5.00" x 1.59") |
| Unit Weight                           | 1.30 kg (2.87 lb)                                | 2.00 kg (4.41 lb)                               |
| MTBF <sup>2)</sup>                    | 500,000 hrs                                      | 500,000 hrs                                     |
| EMC & Emissions                       | EN 55011/EN 55032, FCC Title 47: Class B         |                                                 |
| ENVIRONMENT                           |                                                  |                                                 |
| Operating Temperature                 | -20°C to +70°C                                   |                                                 |
| Storage Temperature                   | -40°C to +85°C                                   |                                                 |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                     |                                                 |
| Operating Altitude                    | 0 to 5,000 m (0 to 16,400 ft)                    |                                                 |
| MEDICAL RATING                        |                                                  |                                                 |
| Float Rating                          | B                                                |                                                 |
| MOPP                                  | 2 x MOPP                                         |                                                 |

Dimensions Reference



Notes  
1) NC: normal condition, SFC: single fault condition.  
2) MTBF as per Telcordia SR-332 (I/P: 150Vac, O/P: 1,200W for MEG-1K2A4 / 1,800W for MEG-2K1A6, Ta: 35°C).

# Delta Medical Power Supplies

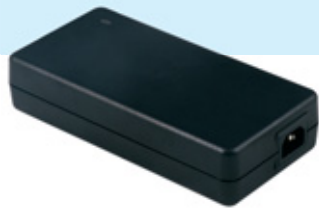
## Adapter



### MDS



- Safety approvals for medical and IT applications
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- 2 × MOPP isolation



### MEA



- Universal AC input voltage range
- High Efficiency meet DoE VI
- 2 × MOPP isolation
- High MTBF
- Safety approvals for medical and IT applications



### MEF



- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Meets Limited Power Source (LPS) requirements
- IP22 ingress protection rating
- 500K hours MTBF
- 2 × MOPP isolation

# MDS Adapter

## 5V, 6V, 7V Output

# MDS



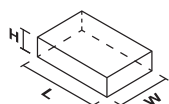
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Safety approvals for medical and IT applications
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- IP22 Ingress Protection Rating
- 2 × MOPP isolation

### GENERAL SPECIFICATIONS

| OUTPUT                                 | MDS-005AAS05                                                                                                                                                                                                           | MDS-030AAC05                                   | MDS-005AAS06                                   | MDS-030AAC07                                   |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| Output Voltage                         | 5V                                                                                                                                                                                                                     | 5V                                             | 6V                                             | 7V                                             |
| Output Current (Max)                   | 1.0A                                                                                                                                                                                                                   | 3.0A                                           | 0.83A                                          | 3.0A                                           |
| Output Power                           | 5W                                                                                                                                                                                                                     | 15W                                            | 5W                                             | 21W                                            |
| Load Regulation                        | ± 8%                                                                                                                                                                                                                   | ± 5%                                           | ± 8%                                           | ± 5%                                           |
| Ripple & Noise                         | 88mV pk-pk @ Full load                                                                                                                                                                                                 | < 100mV pk-pk @ Rated load                     | 111.2mV pk-pk @ Full load                      | < 100mV pk-pk @ Rated load                     |
| INPUT                                  |                                                                                                                                                                                                                        |                                                |                                                |                                                |
| Input Voltage Range                    | 90-264Vac                                                                                                                                                                                                              | 85-264Vac                                      | 90-264Vac                                      | 85-264Vac                                      |
| Input Frequency                        | 47-63Hz                                                                                                                                                                                                                |                                                |                                                |                                                |
| Average Efficiency                     | 73.63% @ 115Vac & 230Vac                                                                                                                                                                                               | 81.4% @ 115Vac & 230Vac                        | 72.4% @ 115Vac & 230Vac                        | 81.4% @ 115Vac & 230Vac                        |
| Touch Current <sup>1)</sup> (264Vac)   | < 0.1mA @ NC, < 0.3mA @ SFC                                                                                                                                                                                            |                                                |                                                |                                                |
| Leakage Current <sup>1)</sup> (264Vac) | -                                                                                                                                                                                                                      | < 0.1mA @ NC, < 0.5mA @ SFC                    | -                                              | < 0.1mA @ NC, < 0.5mA @ SFC                    |
| MECHANICAL                             |                                                                                                                                                                                                                        |                                                |                                                |                                                |
| Dimensions (L × W × H)                 | 56.5 × 39.5 × 28 mm<br>(2.22" × 1.56" × 1.10")                                                                                                                                                                         | 88 × 53.5 × 27.5 mm<br>(3.46" × 2.11" × 1.08") | 56.5 × 39.5 × 28 mm<br>(2.22" × 1.56" × 1.10") | 88 × 53.5 × 27.5 mm<br>(3.46" × 2.11" × 1.08") |
| Unit Weight                            | 0.10 kg (0.22 lb)                                                                                                                                                                                                      | 0.15 kg (0.33 lb)                              | 0.10 kg (0.22 lb)                              | 0.15 kg (0.33 lb)                              |
| Connector Type                         | MDS-005AAS□: Input: Wall mount – US & EU & CN type; Output: O type/Barrel type/Tuning fork type/Micro USB-B type<br>MDS-030AAC□: Input: Wall mount-CN/US/EU/UK/AU/KR/IN/AR/BZ/SA; Output: Barrel type/Tuning fork type |                                                |                                                |                                                |
| MTBF <sup>2)</sup>                     | 1,000,000 hrs                                                                                                                                                                                                          | 500,000 hrs                                    | 1,000,000 hrs                                  | 500,000 hrs                                    |
| EMC & Emissions                        | EN 55011/EN 55032, FCC Title 47: Class B                                                                                                                                                                               |                                                |                                                |                                                |
| ENVIRONMENT                            |                                                                                                                                                                                                                        |                                                |                                                |                                                |
| Operating Temperature                  | 0°C to +40°C                                                                                                                                                                                                           |                                                |                                                |                                                |
| Storage Temperature                    | -40°C to +85°C                                                                                                                                                                                                         |                                                |                                                |                                                |
| Operating Humidity                     | 5 to 95% RH (Non-Condensing)                                                                                                                                                                                           |                                                |                                                |                                                |
| Operating Altitude                     | 0 to 3,000 m (0 to 9,840 ft)                                                                                                                                                                                           | 0 to 5,000 m (0 to 16,400 ft)                  | 0 to 3,000 m (0 to 9,840 ft)                   | 0 to 5,000 m (0 to 16,400 ft)                  |
| Degree of Protection                   | IP22                                                                                                                                                                                                                   |                                                |                                                |                                                |
| Protection Against Shock               | Class II                                                                                                                                                                                                               |                                                |                                                |                                                |
| MEDICAL RATING                         |                                                                                                                                                                                                                        |                                                |                                                |                                                |
| Float Rating                           | BF                                                                                                                                                                                                                     |                                                |                                                |                                                |
| MOPP                                   | 2 × MOPP                                                                                                                                                                                                               |                                                |                                                |                                                |

Dimensions Reference



Notes

- 1) NC: normal condition, SFC: single fault condition.
- 2) MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).

# MDS Adapter

## 12V Output

# MDS

### HIGHLIGHTS & FEATURES

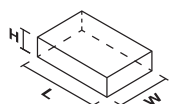
- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation



### GENERAL SPECIFICATIONS

| OUTPUT                        | MDS-030AAC12                                                                                                                                                                                                                                                                                                                                                                                                                        | MDS-060AAS12                                  | MDS-060BAS12                                  | MDS-080AAS12                                | MDS-150AAS12                                                            |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|
| Output Voltage                | 12V                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12V                                           | 12V                                           | 12V                                         | 12V                                                                     |
| Output Current (Max)          | 2.0A                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.0A                                          | 5.0A                                          | 6.67A                                       | 10.0A                                                                   |
| Output Power                  | 24W                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60W                                           | 60W                                           | 80W                                         | 120W                                                                    |
| Load Regulation               | ± 5%                                                                                                                                                                                                                                                                                                                                                                                                                                | ± 4.5%                                        | ± 5%                                          | ± 4.5%                                      |                                                                         |
| Ripple & Noise                | < 150mV pk-pk<br>@ Rated load                                                                                                                                                                                                                                                                                                                                                                                                       | 67mV pk-pk<br>@ Full load                     | 1% typ. pk-pk<br>@ Full load                  | 118.4mV pk-pk<br>@ Full load                | 104mV pk-pk<br>@ Full load                                              |
| INPUT                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                               |                                             |                                                                         |
| Input Voltage Range           | 85-264Vac                                                                                                                                                                                                                                                                                                                                                                                                                           | 90-275Vac                                     | 90-264Vac                                     |                                             |                                                                         |
| Input Frequency               | 47-63Hz                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |                                               |                                             |                                                                         |
| Average Efficiency            | 86.21% @ 115Vac & 230Vac                                                                                                                                                                                                                                                                                                                                                                                                            | 87.0% @ 115Vac                                | 88.0% @ 115Vac & 230Vac                       | 83% typ.                                    | 88.0% @ 115Vac, 87.0% @ 230Vac                                          |
| Touch Current <sup>1)</sup>   | < 0.1mA @ 264Vac NC, < 0.3mA @ 264Vac SFC                                                                                                                                                                                                                                                                                                                                                                                           | < 0.1mA @ 275Vac NC, < 0.3mA @ 275Vac SFC     | < 0.1mA @ 264Vac NC, < 0.3mA @ 264Vac SFC     |                                             |                                                                         |
| Leakage Current <sup>1)</sup> | < 0.1mA @ 264Vac NC, < 0.5mA @ 264Vac SFC                                                                                                                                                                                                                                                                                                                                                                                           | < 0.1mA @ 275Vac NC, < 0.3mA @ 275Vac SFC     | -                                             |                                             |                                                                         |
| MECHANICAL                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                               |                                             |                                                                         |
| Dimensions (L × W × H)        | 88 × 53.5 × 27.5 mm<br>(3.46" × 2.11" × 1.08")                                                                                                                                                                                                                                                                                                                                                                                      | 135 × 62 × 34.1 mm<br>(5.31" × 2.44" × 1.34") | 135 × 62 × 34.1 mm<br>(5.31" × 2.44" × 1.34") | 150 × 75 × 40 mm<br>(5.91" × 2.95" × 1.57") | 170 × 85 × 40 mm<br>(6.69" × 3.35" × 1.57")                             |
| Unit Weight                   | 0.15 kg (0.33 lb)                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.36 kg (0.79 lb)                             | 0.34 kg (0.75 lb)                             | 0.50 kg (1.10 lb)                           | 1.10 kg (2.43 lb)                                                       |
| Connector Type                | MDS-030AAC12: Input: Wall mount-CN/US/EU/UK/AU/KR/IN/AR/BZ/SA; Output: Barrel type/Tuning fork type<br>MDS-060AAS12: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type<br>MDS-060BAS12, MDS-080AAS12: Input: C8 socket; Output: 4-pin DIN/Barrel type/Tuning fork type<br>MDS-150AAS12: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type (Select the appropriate DC plug according to the current) |                                               |                                               |                                             |                                                                         |
| MTBF <sup>2)</sup>            | 500,000 hrs                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,000,000 hrs                                 | 1,000,000 hrs                                 | 1,000,000 hrs                               | 1,000,000 hrs                                                           |
| EMC & Emissions               | EN 55011/EN 55032, FCC Title 47: Class B                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                               |                                             |                                                                         |
| ENVIRONMENT                   |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                               |                                             |                                                                         |
| Operating Temperature         | 0°C to +40°C                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                               |                                             |                                                                         |
| Storage Temperature           | -40°C to +85°C                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               |                                               |                                             |                                                                         |
| Operating Humidity            | 5 to 95% RH<br>(Non-Condensing)                                                                                                                                                                                                                                                                                                                                                                                                     | 10 to 95% RH<br>(Non-Condensing)              | 5 to 95% RH<br>(Non-Condensing)               | 10 to 95% RH (Non-Condensing)               |                                                                         |
| Operating Altitude            | 0 to 5,000 m<br>(0 to 16,400 ft)                                                                                                                                                                                                                                                                                                                                                                                                    | 0 to 3,000 m<br>(0 to 9,840 ft)               | 0 to 5,000 m (0 to 16,400 ft)                 |                                             | 0 to 3,000 m<br>(0 to 9,840 ft)                                         |
| Degree of Protection          | IP22                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                             | IP22                                          |                                             | -                                                                       |
| Protection Against Shock      | Class II                                                                                                                                                                                                                                                                                                                                                                                                                            | Class I                                       | Class II                                      |                                             | Class I for F series,<br>Class II with functional<br>earth for B series |
| MEDICAL RATING                |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                               |                                             |                                                                         |
| Float Rating                  | BF                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |                                               |                                             | B                                                                       |
| MOPP                          | 2 × MOPP                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                               |                                             |                                                                         |

#### Dimensions Reference



#### Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332.

For MDS-030AAC12, MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).

# 15V Output

## MDS

### HIGHLIGHTS & FEATURES

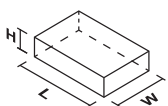
- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation



### GENERAL SPECIFICATIONS

| OUTPUT                        | MDS-030AAC15                                                                                                                                                                                         | MDS-060AAS15                                  | MDS-090AAS15                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|
| Output Voltage                | 15V                                                                                                                                                                                                  | 15V                                           | 15V                                                                 |
| Output Current (Max)          | 2.0A                                                                                                                                                                                                 | 4.0A                                          | 6.0A                                                                |
| Output Power                  | 30W                                                                                                                                                                                                  | 60W                                           | 90W                                                                 |
| Load Regulation               | ± 5%                                                                                                                                                                                                 | ± 4.5%                                        |                                                                     |
| Ripple & Noise                | < 200mV pk-pk @ Rated load                                                                                                                                                                           | 61mV pk-pk @ Full load                        | 114mV pk-pk @ Full load                                             |
| INPUT                         |                                                                                                                                                                                                      |                                               |                                                                     |
| Input Voltage Range           | 85-264Vac                                                                                                                                                                                            | 90-275Vac                                     | 90-264Vac                                                           |
| Input Frequency               | 47-63Hz                                                                                                                                                                                              |                                               |                                                                     |
| Average Efficiency            | 87.0% @ 115Vac & 230Vac                                                                                                                                                                              | 88.0% @ 115Vac & 230Vac                       | 88.0% @ 115Vac                                                      |
| Touch Current <sup>1)</sup>   | < 0.1mA @ 264Vac NC,<br>< 0.3mA @ 264Vac SFC                                                                                                                                                         | < 0.1mA @ 275Vac NC,<br>< 0.3mA @ 275Vac SFC  | < 0.1mA @ 264Vac NC,<br>< 0.3mA @ 264Vac SFC                        |
| Leakage Current <sup>1)</sup> | < 0.1mA @ 264Vac NC,<br>< 0.5mA @ 264Vac SFC                                                                                                                                                         | < 0.1mA @ 275Vac NC,<br>< 0.3mA @ 275Vac SFC  | < 0.1mA @ 264Vac NC,<br>< 0.3mA @ 264Vac SFC                        |
| MECHANICAL                    |                                                                                                                                                                                                      |                                               |                                                                     |
| Dimensions (L × W × H)        | 88 × 53.5 × 27.5 mm<br>(3.46" × 2.11" × 1.08")                                                                                                                                                       | 135 × 62 × 34.1 mm<br>(5.31" × 2.44" × 1.34") | 150 × 60 × 35 mm<br>(5.91" × 2.36" × 1.38")                         |
| Unit Weight                   | 0.15 kg (0.33 lb)                                                                                                                                                                                    | 0.36 kg (0.79 lb)                             | 0.45 kg (0.99 lb)                                                   |
| Connector Type                | MDS-030AAC15: Input: Wall mount-CN/US/EU/UK/AU/KR/IN/AR/BZ/SA; Output: Barrel type/Tuning fork type<br>MDS-060AAS15, MDS-090AAS15: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type |                                               |                                                                     |
| MTBF <sup>2)</sup>            | 500,000 hrs                                                                                                                                                                                          | 1,000,000 hrs                                 | 1,000,000 hrs                                                       |
| EMC & Emissions               | EN 55011/EN 55032, FCC Title 47: Class B                                                                                                                                                             |                                               |                                                                     |
| ENVIRONMENT                   |                                                                                                                                                                                                      |                                               |                                                                     |
| Operating Temperature         | 0°C to +40°C                                                                                                                                                                                         |                                               |                                                                     |
| Storage Temperature           | -40°C to +85°C                                                                                                                                                                                       |                                               |                                                                     |
| Operating Humidity            | 5 to 95% RH (Non-Condensing)                                                                                                                                                                         | 10 to 95% RH (Non-Condensing)                 |                                                                     |
| Operating Altitude            | 0 to 5,000 m (0 to 16,400 ft)                                                                                                                                                                        | 0 to 3,000 m (0 to 9,840 ft)                  |                                                                     |
| Degree of Protection          | IP22                                                                                                                                                                                                 | -                                             |                                                                     |
| Protection Against Shock      | Class II                                                                                                                                                                                             | Class I                                       | Class I for F series<br>Class II with functional earth for B series |
| MEDICAL RATING                |                                                                                                                                                                                                      |                                               |                                                                     |
| Float Rating                  | BF                                                                                                                                                                                                   |                                               | B                                                                   |
| MOPP                          | 2 × MOPP                                                                                                                                                                                             |                                               |                                                                     |

Dimensions Reference



#### Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332.

For MDS-030AAC15, MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).



# MDS Adapter

## 19V Output



# MDS

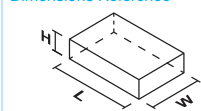
### HIGHLIGHTS & FEATURES

- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation
- High MTBF

### GENERAL SPECIFICATIONS

| OUTPUT                        | MDS-060AAS19                                                                                                                                                                                                                                                                                                                                                                                       | MDS-060BAS19                                  | MDS-090AAS19                                                         | MDS-150AAS19                                | MDS-150CAB19                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|
| Output Voltage                | 19V                                                                                                                                                                                                                                                                                                                                                                                                | 19V                                           | 19V                                                                  | 19V                                         | 19V                                         |
| Output Current (Max)          | 3.15A                                                                                                                                                                                                                                                                                                                                                                                              | 3.15A                                         | 4.73A                                                                | 7.89A                                       | 7.9A                                        |
| Output Power                  | 60W                                                                                                                                                                                                                                                                                                                                                                                                | 60W                                           | 90W                                                                  | 150W                                        | 150W                                        |
| Load Regulation               | ± 4.5%                                                                                                                                                                                                                                                                                                                                                                                             | ± 5%                                          | ± 4.5%                                                               |                                             | ± 5%                                        |
| Ripple & Noise                | 61mV pk-pk<br>@ Full load                                                                                                                                                                                                                                                                                                                                                                          | 1% typ. pk-pk<br>@ Full load                  | 91.2mV pk-pk<br>@ Full load                                          | 94.4mV pk-pk<br>@ Full load                 | 109mV pk-pk<br>@ Full load                  |
| INPUT                         |                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                                      |                                             |                                             |
| Input Voltage Range           | 90-275Vac                                                                                                                                                                                                                                                                                                                                                                                          | 90-264Vac                                     | 90-264Vac                                                            |                                             |                                             |
| Input Frequency               | 47-63Hz                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                                                      |                                             |                                             |
| Average Efficiency            | 88.0% @ 115Vac &<br>230Vac                                                                                                                                                                                                                                                                                                                                                                         | 88.0% @ 115Vac<br>87.0% @ 230Vac              | 88.0% @ 115Vac                                                       | 88.0% @ 115Vac &<br>230Vac                  | 92.0%                                       |
| Touch Current <sup>1)</sup>   | < 0.1mA @ 275Vac NC,<br>< 0.3mA @ 275Vac SFC                                                                                                                                                                                                                                                                                                                                                       | < 0.1mA @ 264Vac NC, < 0.3mA @ 264Vac SFC     |                                                                      |                                             |                                             |
| Leakage Current <sup>1)</sup> | < 0.1mA @ 275Vac NC,<br>< 0.3mA @ 275Vac SFC                                                                                                                                                                                                                                                                                                                                                       | -                                             | < 0.1mA @ 264Vac NC,<br>< 0.3mA @ 264Vac SFC                         | -                                           |                                             |
| MECHANICAL                    |                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                                      |                                             |                                             |
| Dimensions (L × W × H)        | 135 × 62 × 34.1 mm<br>(5.31" × 2.44" × 1.34")                                                                                                                                                                                                                                                                                                                                                      | 135 × 62 × 34.1 mm<br>(5.31" × 2.44" × 1.34") | 150 × 60 × 35 mm<br>(5.91" × 2.36" × 1.38")                          | 170 × 85 × 40 mm<br>(6.69" × 3.35" × 1.57") | 150 × 65 × 32 mm<br>(5.91" × 2.56" × 1.26") |
| Unit Weight                   | 0.36 kg (0.79 lb)                                                                                                                                                                                                                                                                                                                                                                                  | 0.34 kg (0.75 lb)                             | 0.45 kg (0.99 lb)                                                    | 1.10 kg (2.43 lb)                           | 0.52 kg (1.15 lb)                           |
| Connector Type                | MDS-060AAS19, MDS-090AAS19: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type<br>MDS-060BAS19: Input: C8 socket; Output: 4-pin DIN/Barrel type/Tuning fork type<br>MDS-150AAS19: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type (Select the appropriate DC plug according to the current)<br>MDS-150CAB19: Input: C6 socket; Output: 4-pin DIN/Tuning fork type |                                               |                                                                      |                                             |                                             |
| MTBF <sup>2)</sup>            | 1,000,000 hrs                                                                                                                                                                                                                                                                                                                                                                                      | 1,000,000 hrs                                 | 1,000,000 hrs                                                        | 1,000,000 hrs                               | 2,100,000 hrs                               |
| EMC & Emissions               | EN 55011/EN 55032, FCC Title 47: Class B                                                                                                                                                                                                                                                                                                                                                           |                                               |                                                                      |                                             |                                             |
| ENVIRONMENT                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                                      |                                             |                                             |
| Operating Temperature         | 0°C to +40°C                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                                      |                                             |                                             |
| Storage Temperature           | -40°C to +85°C                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                                                      |                                             |                                             |
| Operating Humidity            | 10 to 95% RH<br>(Non-Condensing)                                                                                                                                                                                                                                                                                                                                                                   | 5 to 95% RH<br>(Non-Condensing)               | 10 to 95% RH (Non-Condensing)                                        |                                             |                                             |
| Operating Altitude            | 0 to 3,000 m<br>(0 to 9,840 ft)                                                                                                                                                                                                                                                                                                                                                                    | 0 to 5,000 m<br>(0 to 16,400 ft)              | 0 to 3,000 m (0 to 9,840 ft)                                         |                                             | 0 to 5,000 m<br>(0 to 16,400 ft)            |
| Degree of Protection          | -                                                                                                                                                                                                                                                                                                                                                                                                  | IP22                                          | -                                                                    |                                             | IP22                                        |
| Protection Against Shock      | Class I                                                                                                                                                                                                                                                                                                                                                                                            | Class II                                      | Class I for F series,<br>Class II with functional earth for B series |                                             | Class I                                     |
| MEDICAL RATING                |                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                                                      |                                             |                                             |
| Float Rating                  | BF                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | B                                                                    |                                             |                                             |
| MOPP                          | 2 × MOPP                                                                                                                                                                                                                                                                                                                                                                                           |                                               |                                                                      |                                             |                                             |

Dimensions Reference



Notes

- 1) NC: normal condition, SFC: single fault condition.  
2) MTBF as per Telcordia SR-332.

# 24V Output

## MDS

### HIGHLIGHTS & FEATURES

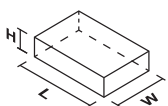
- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation
- High MTBF



### GENERAL SPECIFICATIONS

| OUTPUT                        | MDS-030AAC24                                                                                                                                                                                                                                                             | MDS-060AAS24                                  | MDS-060BAS24                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Output Voltage                | 24V                                                                                                                                                                                                                                                                      | 24V                                           | 24V                                           |
| Output Current (Max)          | 1.25A                                                                                                                                                                                                                                                                    | 2.5A                                          | 2.5A                                          |
| Output Power                  | 30W                                                                                                                                                                                                                                                                      | 60W                                           | 60W                                           |
| Load Regulation               | ± 5%                                                                                                                                                                                                                                                                     | ± 4.5%                                        | ± 5%                                          |
| Ripple & Noise                | < 200mV pk-pk @ Rated load                                                                                                                                                                                                                                               | 43mV pk-pk @ Full load                        | 1% typ. pk-pk @ Full load                     |
| INPUT                         |                                                                                                                                                                                                                                                                          |                                               |                                               |
| Input Voltage Range           | 85-264Vac                                                                                                                                                                                                                                                                | 90-275Vac                                     | 90-264Vac                                     |
| Input Frequency               | 47-63Hz                                                                                                                                                                                                                                                                  |                                               |                                               |
| Average Efficiency            | 87.0% @ 115Vac & 230Vac                                                                                                                                                                                                                                                  | 88.0% @ 115Vac<br>87.0% @ 230Vac              | 87.0% @ 115Vac & 230Vac                       |
| Touch Current <sup>1)</sup>   | < 0.1mA @ 264Vac NC,<br>< 0.3mA @ 264Vac SFC                                                                                                                                                                                                                             | < 0.1mA @ 275Vac NC,<br>< 0.3mA @ 275Vac SFC  | < 0.1mA @ 264Vac NC,<br>< 0.3mA @ 264Vac SFC  |
| Leakage Current <sup>1)</sup> | < 0.1mA @ 264Vac NC,<br>< 0.5mA @ 264Vac SFC                                                                                                                                                                                                                             | < 0.1mA @ 275Vac NC,<br>< 0.3mA @ 275Vac SFC  | -                                             |
| MECHANICAL                    |                                                                                                                                                                                                                                                                          |                                               |                                               |
| Dimensions (L × W × H)        | 88 × 53.5 × 27.5 mm<br>(3.46" × 2.11" × 1.08")                                                                                                                                                                                                                           | 135 × 62 × 34.1 mm<br>(5.31" × 2.44" × 1.34") | 135 × 62 × 34.1 mm<br>(5.31" × 2.44" × 1.34") |
| Unit Weight                   | 0.15 kg (0.33 lb)                                                                                                                                                                                                                                                        | 0.36 kg (0.79 lb)                             | 0.34 kg (0.75 lb)                             |
| Connector Type                | MDS-030AAC24: Input: Wall mount-CN/US/EU/UK/AU/KR/IN/AR/BZ/SA; Output: Barrel type/Tuning fork type<br>MDS-060AAS24: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type<br>MDS-060BAS24: Input: C8 socket; Output: 4-pin DIN/Barrel type/Tuning fork type |                                               |                                               |
| MTBF <sup>2)</sup>            | 500,000 hrs                                                                                                                                                                                                                                                              | 1,000,000 hrs                                 | 1,000,000 hrs                                 |
| EMC & Emissions               | EN 55011/EN 55032, FCC Title 47: Class B                                                                                                                                                                                                                                 |                                               |                                               |
| ENVIRONMENT                   |                                                                                                                                                                                                                                                                          |                                               |                                               |
| Operating Temperature         | 0°C to +40°C                                                                                                                                                                                                                                                             |                                               |                                               |
| Storage Temperature           | -40°C to +85°C                                                                                                                                                                                                                                                           |                                               |                                               |
| Operating Humidity            | 5 to 95% RH (Non-Condensing)                                                                                                                                                                                                                                             | 10 to 95% RH (Non-Condensing)                 | 5 to 95% RH (Non-Condensing)                  |
| Operating Altitude            | 0 to 5,000 m (0 to 16,400 ft)                                                                                                                                                                                                                                            | 0 to 3,000 m (0 to 9,840 ft)                  | 0 to 5,000 m (0 to 16,400 ft)                 |
| Degree of Protection          | IP22                                                                                                                                                                                                                                                                     | -                                             | IP22                                          |
| Protection Against Shock      | Class II                                                                                                                                                                                                                                                                 | Class I                                       | Class II                                      |
| MEDICAL RATING                |                                                                                                                                                                                                                                                                          |                                               |                                               |
| Float Rating                  | BF                                                                                                                                                                                                                                                                       |                                               |                                               |
| MOPP                          | 2 × MOPP                                                                                                                                                                                                                                                                 |                                               |                                               |

#### Dimensions Reference



#### Notes

1) NC: normal condition, SFC: single fault condition.

2) MTBF as per Telcordia SR-332.

For MDS-030AAC24, MTBF as per Telcordia SR-332 (I/P: 100Vac, O/P: 100% load, Ta: 25°C).

# MDS Adapter

## 24V Output

# MDS

### HIGHLIGHTS & FEATURES

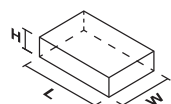
- Universal AC input voltage range
- Over-Voltage/Load/Temperature & Short Circuit Protections
- Low touch current (< 0.1mA Normal & < 0.3mA Single Fault)
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Safety approvals for medical and IT applications
- 2 × MOPP isolation
- High MTBF



### GENERAL SPECIFICATIONS

| OUTPUT                                    | MDS-090AAS24                                                                                                                                                                                                                                                                                                   | MDS-090BAS24                                | MDS-150AAS24                                                         |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------|
| Output Voltage                            | 24V                                                                                                                                                                                                                                                                                                            | 24V                                         | 24V                                                                  |
| Output Current (Max)                      | 3.75A                                                                                                                                                                                                                                                                                                          | 3.75A                                       | 6.25A                                                                |
| Output Power                              | 90W                                                                                                                                                                                                                                                                                                            | 90W                                         | 150W                                                                 |
| Load Regulation                           | ± 4.5%                                                                                                                                                                                                                                                                                                         |                                             |                                                                      |
| Ripple & Noise                            | 94.4mV pk-pk @ Full load                                                                                                                                                                                                                                                                                       | 107.2mV pk-pk @ Full load                   | 83.2mV pk-pk @ Full load                                             |
| INPUT                                     |                                                                                                                                                                                                                                                                                                                |                                             |                                                                      |
| Input Voltage Range                       | 90-264Vac                                                                                                                                                                                                                                                                                                      |                                             |                                                                      |
| Input Frequency                           | 47-63Hz                                                                                                                                                                                                                                                                                                        |                                             |                                                                      |
| Average Efficiency                        | 88.0%                                                                                                                                                                                                                                                                                                          |                                             | 88.0% @ 115Vac,<br>87.0% @ 230Vac                                    |
| Touch Current <sup>1)</sup><br>(264Vac)   | < 0.1mA @ NC, < 0.3mA @ SFC                                                                                                                                                                                                                                                                                    |                                             |                                                                      |
| Leakage Current <sup>1)</sup><br>(264Vac) | < 0.1mA @ NC,<br>< 0.3mA @ SFC                                                                                                                                                                                                                                                                                 | -                                           | -                                                                    |
| MECHANICAL                                |                                                                                                                                                                                                                                                                                                                |                                             |                                                                      |
| Dimensions (L × W × H)                    | 150 × 60 × 35 mm<br>(5.91" × 2.36" × 1.38")                                                                                                                                                                                                                                                                    | 150 × 75 × 40 mm<br>(5.91" × 2.95" × 1.57") | 170 × 85 × 40 mm<br>(6.69" × 3.35" × 1.57")                          |
| Unit Weight                               | 0.45 kg (0.99 lb)                                                                                                                                                                                                                                                                                              | 0.50 kg (1.10 lb)                           | 1.10 kg (2.43 lb)                                                    |
| Connector Type                            | MDS-090AAS24: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type<br>MDS-090BAS24: Input: C8 socket; Output: 4-pin DIN/Barrel type/Tuning fork type<br>MDS-150AAS24: Input: C14 socket; Output: 4-pin DIN/Barrel type/Tuning fork type (Select the appropriate DC plug according to the current) |                                             |                                                                      |
| MTBF <sup>2)</sup>                        | 1,000,000 hrs                                                                                                                                                                                                                                                                                                  | 1,000,000 hrs                               | 1,000,000 hrs                                                        |
| EMC & Emissions                           | EN 55011/EN 55032, FCC Title 47: Class B                                                                                                                                                                                                                                                                       |                                             |                                                                      |
| ENVIRONMENT                               |                                                                                                                                                                                                                                                                                                                |                                             |                                                                      |
| Operating Temperature                     | 0°C to +40°C                                                                                                                                                                                                                                                                                                   |                                             |                                                                      |
| Storage Temperature                       | -40°C to +85°C                                                                                                                                                                                                                                                                                                 |                                             |                                                                      |
| Operating Humidity                        | 10 to 95% RH (Non-Condensing)                                                                                                                                                                                                                                                                                  |                                             |                                                                      |
| Operating Altitude                        | 0 to 3,000 m (0 to 9,840 ft)                                                                                                                                                                                                                                                                                   | 0 to 5,000 m (0 to 16,400 ft)               | 0 to 3,000 m (0 to 9,840 ft)                                         |
| Degree of Protection                      | -                                                                                                                                                                                                                                                                                                              | IP22                                        | -                                                                    |
| Protection Against Shock                  | Class I for F series,<br>Class II with functional earth for B series                                                                                                                                                                                                                                           | Class II                                    | Class I for F series,<br>Class II with functional earth for B series |
| MEDICAL RATING                            |                                                                                                                                                                                                                                                                                                                |                                             |                                                                      |
| Float Rating                              | B                                                                                                                                                                                                                                                                                                              | BF                                          | B                                                                    |
| MOPP                                      | 2 × MOPP                                                                                                                                                                                                                                                                                                       |                                             |                                                                      |

Dimensions Reference



Notes

- 1) NC: normal condition, SFC: single fault condition.  
2) MTBF as per Telcordia SR-332.

# MEA Adapter

## 15V, 24V Output

# MEA

### HIGHLIGHTS & FEATURES

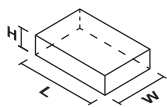
- Universal AC input voltage range
- High Efficiency meet DoE VI
- 2 × MOPP isolation
- High MTBF
- Safety approvals for medical and IT applications



### GENERAL SPECIFICATIONS

|                               | NEW                                                                                                        | NEW                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| OUTPUT                        | MEA-120A15B                                                                                                | MEA-250A24C                                  |
| Output Voltage                | 15V                                                                                                        | 24V                                          |
| Output Current (Max)          | 8.0A                                                                                                       | 10.42A                                       |
| Output Power                  | 120W                                                                                                       | 250W                                         |
| Load Regulation               | ± 5%                                                                                                       | ± 4.5%                                       |
| Ripple & Noise                | < 250mV pk-pk                                                                                              | < 240mVpk-pk                                 |
| INPUT                         |                                                                                                            |                                              |
| Input Voltage Range           | 90-264Vac                                                                                                  |                                              |
| Input Frequency               | 47-63Hz                                                                                                    |                                              |
| Average Efficiency            | 88.0% typ.                                                                                                 | 90.0% typ.                                   |
| Touch Current <sup>1)</sup>   | -                                                                                                          | < 0.1mA @ 264Vac NC,<br>< 0.3mA @ 264Vac SFC |
| Leakage Current <sup>1)</sup> | < 0.1mA at 264Vac/50Hz                                                                                     | < 0.2mA @ 264Vac NC,<br>< 0.5mA @ 264Vac SFC |
| MECHANICAL                    |                                                                                                            |                                              |
| Dimensions (L × W × H)        | 170 × 85 × 40 mm<br>(6.69" × 3.35" × 1.57")                                                                | 200 × 100 × 43 mm<br>(7.87" × 3.94" × 1.69") |
| Unit Weight                   | 0.74 kg (1.63 lb)                                                                                          | 1.05 kg (2.31 lb)                            |
| Connector Type                | MEA-120A15B: Input: C8 socket; Output: 4-pin DIN<br>MEA-250A24C: Input: C14 socket; Output: 6-pin mini-fit |                                              |
| MTBF <sup>2)</sup>            | 1,000,000 hrs                                                                                              | 500,000 hrs                                  |
| EMC & Emissions               | EN 55011/EN 55032                                                                                          | EN 55011/EN 55032, FCC Title 47: Class B     |
| ENVIRONMENT                   |                                                                                                            |                                              |
| Operating Temperature         | 0°C to +40°C                                                                                               | 5°C to +60°C                                 |
| Storage Temperature           | -40°C to +85°C                                                                                             | -40°C to +70°C                               |
| Operating Humidity            | 5 to 95% RH (Non-Condensing)                                                                               |                                              |
| Operating Altitude            | 0 to 5,000 m (0 to 16,400 ft)                                                                              |                                              |
| Degree of Protection          | IP20                                                                                                       | IP22                                         |
| Protection Against Shock      | Class II                                                                                                   | Class I                                      |
| MEDICAL RATING                |                                                                                                            |                                              |
| Float Rating                  | B                                                                                                          | BF                                           |
| MOPP                          | 2 × MOPP                                                                                                   |                                              |

Dimensions Reference



Notes  
1) NC: normal condition, SFC: single fault condition.  
2) MTBF as per Telcordia SR-332.  
For MEA-250A24C, MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load, Ta: 25°C).

# MEF Adapter

## 5V Output

# MEF

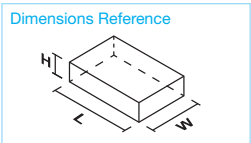


### HIGHLIGHTS & FEATURES

- Safety approvals for medical and IT applications
- Compliant with IEC 60601-1-2 4<sup>th</sup> Ed. Requirements
- Meets Limited Power Source (LPS) requirements
- IP22 ingress protection rating
- 500K hours MTBF
- 2 × MOPP isolation

### GENERAL SPECIFICATIONS

|                          | NEW                                              |
|--------------------------|--------------------------------------------------|
| OUTPUT                   | MEF-010A05B                                      |
| Output Voltage           | 5V                                               |
| Output Current (Max)     | 2.0A                                             |
| Output Power             | 10W                                              |
| Load Regulation          | ± 8%                                             |
| Ripple & Noise           | 100mV pk-pk                                      |
| INPUT                    |                                                  |
| Input Voltage Range      | 85-264Vac                                        |
| Input Frequency          | 47-63Hz                                          |
| Efficiency               | 73.4% typ.                                       |
| Touch Current            | -                                                |
| Leakage Current          | < 0.1mA                                          |
| MECHANICAL               |                                                  |
| Dimensions (L × W × H)   | 70 × 43 × 27.5 mm<br>(2.76" × 1.69" × 1.08")     |
| Unit Weight              | 0.95 kg (2.09 lb)                                |
| Connector Type           | Input: Wall mount - US Type; Output: Barrel type |
| MTBF <sup>1)</sup>       | 500,000 hrs                                      |
| EMC & Emissions          | EN 55011 / EN 55032, FCC Title 47: Class B       |
| ENVIRONMENT              |                                                  |
| Operating Temperature    | 0°C to +40°C                                     |
| Storage Temperature      | -40°C to +85°C                                   |
| Operating Humidity       | 10 to 95% RH (Non-Condensing)                    |
| Operating Altitude       | 0 to 5,000 m (0 to 16,400 ft)                    |
| Degree of Protection     | IP22                                             |
| Protection Against Shock | Class II                                         |
| MEDICAL RATING           |                                                  |
| Float Rating             | B                                                |
| MOPP                     | 2 × MOPP                                         |



Notes  
1) MTBF as per Telcordia SR-332.

# Standard Products

## Delta LED Power Supplies



### Product Types

#### 1 LED Driver

Delta LED drivers are designed according to major international safety standards for various indoor and outdoor lighting applications. Every piece is rigorously tested for the highest quality and reliability.



- IP65 Protection

**LNE-□V□W□□□A, LNV-□V□W□□AA**

With potentiometers to adjust output voltage and constant current level



100-185W



320W

- IP67 Protection

**LNE-□V□W□□□B□A, LNV-□V□W□□BAA**

Without dimming cable and potentiometers



320W

**LNE-□V□W□□□□□A, LNV-□V□W□□□□□AA**

With dimming cable to adjust constant current level



100-185W



320W

#### 2 Open Frame

The open frame power supply is designed in standard industrial 3" x 5" footprint for lighting applications. The highly efficient fan or convection cooled design with optimum thermal management for high power needs.





# Selection Guide

## Delta LED Power Supplies

New products are frequently introduced. Please visit [www.DeltaPSU.com](http://www.DeltaPSU.com) for latest product updates.

| Product Type | Series                                                                                                                                                   | Model Name     | Phase | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range | Page |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|-----|----------------|----------------|--------------|---------------------|------|
|              |                                                                                                                                                          |                | 1     |     |                |                |              |                     |      |
| LED Driver   | <b>LNE</b> <ul style="list-style-type: none"> <li>• High surge immunity</li> <li>• IP65/IP67 Compliant</li> <li>• LED lighting power solution</li> </ul> | LNE-12V100W□AA | ●     | ●   | 12V            | 8.0A           | 96W          | 90-305Vac           | 109  |
|              |                                                                                                                                                          | LNE-12V120W□AA | ●     | ●   |                | 10.0A          | 120W         |                     |      |
|              |                                                                                                                                                          | LNE-12V150W□AA | ●     | ●   |                | 12.5A          | 150W         |                     |      |
|              |                                                                                                                                                          | LNE-12V185W□AA | ●     | ●   |                | 13.0A          | 156W         |                     |      |
|              |                                                                                                                                                          | LNE-12V320W□AA | ●     | ●   |                | 22.5A          | 270W         |                     |      |
|              |                                                                                                                                                          | LNE-12V100W□CA | ●     | ●   |                | 8.0A           | 96W          | 90-264Vac           | 110  |
|              |                                                                                                                                                          | LNE-12V120W□CA | ●     | ●   |                | 10.0A          | 120W         |                     |      |
|              |                                                                                                                                                          | LNE-12V150W□CA | ●     | ●   |                | 12.5A          | 150W         |                     |      |
|              |                                                                                                                                                          | LNE-12V185W□AA | ●     | ●   |                | 13.0A          | 156W         |                     |      |
|              |                                                                                                                                                          | LNE-12V320W□AA | ●     | ●   |                | 22.5A          | 270W         |                     |      |
|              |                                                                                                                                                          | LNE-24V100W□AA | ●     | ●   | 24V            | 4.0A           | 96W          | 90-305Vac           | 111  |
|              |                                                                                                                                                          | LNE-24V120W□AA | ●     | ●   |                | 5.0A           | 120W         |                     |      |
|              |                                                                                                                                                          | LNE-24V150W□AA | ●     | ●   |                | 6.3A           | 151.2W       |                     |      |
|              |                                                                                                                                                          | LNE-24V185W□AA | ●     | ●   |                | 7.8A           | 187.2W       |                     |      |
|              |                                                                                                                                                          | LNE-24V320W□AA | ●     | ●   |                | 13.4A          | 320W         |                     |      |
|              |                                                                                                                                                          | LNE-24V100W□CA | ●     | ●   |                | 4.0A           | 96W          | 90-264Vac           | 112  |
|              |                                                                                                                                                          | LNE-24V120W□CA | ●     | ●   |                | 5.0A           | 120W         |                     |      |
|              |                                                                                                                                                          | LNE-24V150W□CA | ●     | ●   |                | 6.3A           | 151.2W       |                     |      |
|              |                                                                                                                                                          | LNE-24V185W□CA | ●     | ●   |                | 7.8A           | 187.2W       |                     |      |
|              |                                                                                                                                                          | LNE-24V320W□CA | ●     | ●   |                | 13.4A          | 320W         |                     |      |
|              |                                                                                                                                                          | LNE-36V100W□AA | ●     | ●   | 36V            | 2.65A          | 95.4W        | 90-305Vac           | 113  |
|              |                                                                                                                                                          | LNE-36V120W□AA | ●     | ●   |                | 3.4A           | 122.4W       |                     |      |
|              |                                                                                                                                                          | LNE-36V150W□AA | ●     | ●   |                | 4.2A           | 151.2W       |                     |      |
|              |                                                                                                                                                          | LNE-36V185W□AA | ●     | ●   |                | 5.2A           | 187.2W       |                     |      |
|              |                                                                                                                                                          | LNE-36V320W□AA | ●     | ●   |                | 8.9A           | 320W         |                     |      |
|              |                                                                                                                                                          | LNE-36V100W□CA | ●     | ●   |                | 2.65A          | 95.4W        | 90-264Vac           | 114  |
|              |                                                                                                                                                          | LNE-36V120W□CA | ●     | ●   |                | 3.4A           | 122.4W       |                     |      |
|              |                                                                                                                                                          | LNE-36V150W□CA | ●     | ●   |                | 4.2A           | 151.2W       |                     |      |
|              |                                                                                                                                                          | LNE-36V185W□CA | ●     | ●   |                | 5.2A           | 187.2W       |                     |      |
|              |                                                                                                                                                          | LNE-36V320W□CA | ●     | ●   |                | 8.9A           | 320W         |                     |      |

### LED Driver Model Numbering

| LN         | E –                                           | XXV            | XXXW         | □                                                                                                                                                                                                                               | □                                                                                                                                                                       | A                              |
|------------|-----------------------------------------------|----------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| LED Driver | Product Series<br>E - High efficiency and PFC | Output Voltage | Output Power | Package Type<br>A - IP65 with potentiometers to adjust output voltage & constant current level<br>B - IP67 without dimming cable & potentiometers <sup>1)</sup><br>D - IP67 with dimming cable to adjust constant current level | Safety Approval<br><u>100-185W</u><br>A - UL approval<br>C - ENEC, CE, KC, PSE and CCC approval<br><br><u>320W</u><br>A - UL approval<br>C - ENEC, CE, and CCC approval | Variable<br>A - Delta Standard |

1) Options for 320W models only

| Product Type | Series                                                                                 | Model Name     | Phase |   | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range | Page |
|--------------|----------------------------------------------------------------------------------------|----------------|-------|---|-----|----------------|----------------|--------------|---------------------|------|
|              |                                                                                        |                | 1     | 2 |     |                |                |              |                     |      |
| LED Driver   | LNE<br>• High surge immunity<br>• IP65/IP67 Compliant<br>• LED lighting power solution | LNE-48V100W□AA | ●     |   | ●   | 48V            | 2.0A           | 96W          | 90-305Vac           | 115  |
|              |                                                                                        | LNE-48V120W□AA | ●     |   | ●   |                | 2.5A           | 120W         |                     |      |
|              |                                                                                        | LNE-48V150W□AA | ●     |   | ●   |                | 3.2A           | 153.6W       |                     |      |
|              |                                                                                        | LNE-48V185W□AA | ●     |   | ●   |                | 3.9A           | 187.2W       |                     |      |
|              |                                                                                        | LNE-48V320W□AA | ●     |   | ●   |                | 6.7A           | 320W         |                     |      |
|              |                                                                                        | LNE-48V100W□CA | ●     |   | ●   |                | 2.0A           | 96W          | 90-264Vac           | 116  |
|              |                                                                                        | LNE-48V120W□CA | ●     |   | ●   |                | 2.5A           | 120W         |                     |      |
|              |                                                                                        | LNE-48V150W□CA | ●     |   | ●   |                | 3.2A           | 153.6W       |                     |      |
|              |                                                                                        | LNE-48V185W□CA | ●     |   | ●   |                | 3.9A           | 187.2W       |                     |      |
|              |                                                                                        | LNE-48V320W□CA | ●     |   | ●   |                | 6.7A           | 320W         |                     |      |
|              |                                                                                        | LNE-54V150W□AA | ●     |   | ●   | 54V            | 2.8A           | 151.2W       | 90-305Vac           | 117  |
|              |                                                                                        | LNE-54V185W□AA | ●     |   | ●   |                | 3.45A          | 186.3W       |                     |      |
|              |                                                                                        | LNE-54V150W□CA | ●     |   | ●   |                | 2.8A           | 151.2W       | 90-264Vac           | 118  |
|              |                                                                                        | LNE-54V185W□CA | ●     |   | ●   |                | 3.45A          | 186.3W       |                     |      |

| Product Type | Series                                                                                | Model Name     | Phase |   | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range | Page |
|--------------|---------------------------------------------------------------------------------------|----------------|-------|---|-----|----------------|----------------|--------------|---------------------|------|
|              |                                                                                       |                | 1     | 2 |     |                |                |              |                     |      |
| LED Driver   | LNV<br>• High input voltage<br>• IP65/IP67 Compliant<br>• LED lighting power solution | LVN-12V320W□AA | ●     | ● | ●   | 12V            | 22.5A          | 270W         | 180-528Vac          | 119  |
|              |                                                                                       | LVN-24V320W□AA | ●     | ● | ●   | 24V            | 13.4A          | 320W         |                     |      |
|              |                                                                                       | LVN-36V320W□AA | ●     | ● | ●   | 36V            | 8.9A           | 320W         |                     |      |
|              |                                                                                       | LVN-48V320W□AA | ●     | ● | ●   | 48V            | 6.7A           | 320W         |                     |      |

## LED Driver Model Numbering

| LN         | V –                                      | XXV            | XXXW         | □                                                                                                                                                                                                                 | □                                  | A                              |
|------------|------------------------------------------|----------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------|
| LED Driver | Product Series<br>V - High input voltage | Output Voltage | Output Power | Package Type<br>A - IP65 with potentiometers to adjust output voltage & constant current level<br>B - IP67 without dimming cable & potentiometers<br>D - IP67 with dimming cable to adjust constant current level | Safety Approval<br>A - UL approval | Variable<br>A - Delta Standard |

| Product Type            | Series                                                                                                 | Model Name     | Phase | PFC | Output Voltage | Output Current | Output Power | Input Voltage Range | Page |
|-------------------------|--------------------------------------------------------------------------------------------------------|----------------|-------|-----|----------------|----------------|--------------|---------------------|------|
|                         |                                                                                                        |                | 1     |     |                |                |              |                     |      |
| Open Frame Power Supply | PJL<br>• UL 8750 and IEC/UL 60950-1 approvals<br>• Low inrush current<br>• LED lighting power solution | PJL-48V200WBAA | ●     | ●   | 48V            | 4.17A          | 200W         | 85-305Vac           | 121  |
|                         |                                                                                                        | PJL-48V400WBAA | ●     | ●   |                | 8.33A          | 400W         |                     |      |

## Open Frame Model Numbering

| PJ         | L –                                             | XXV            | XXXW         | B                              | A          | A                |
|------------|-------------------------------------------------|----------------|--------------|--------------------------------|------------|------------------|
| Open Frame | Product Type<br>L - Lighting Application Series | Output Voltage | Output Power | Package Type<br>B - Open Frame | Active PFC | A - TE connector |

# Delta LED Power Supplies

## LED Driver

### LNE



AR

- Constant Voltage and Constant Current Design
- North American and International AC voltage options
- 6kV common mode & 4kV differential mode surge immunity
- Adjustable voltage & current, dimming options available
- IP65 or IP67 options for indoor and outdoor applications



### LNV



AR

- Constant Voltage and Constant Current Design
- Designed for single phase (for L – N) or two phase (for L – L) wide input 180-528Vac
- 6kV common mode & 4kV differential mode surge immunity
- Adjustable voltage & current, dimming options available
- IP65 or IP67 options for indoor and outdoor applications



# LNE LED Driver

## 12V Output (North American AC Voltage)

# LNE

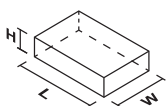
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 92.0% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        | LNE-12V100W□AA                                                | LNE-12V120W□AA                                                | LNE-12V150W□AA                                                | LNE-12V185W□AA                                                | LNE-12V320W□AA                                                |
|-----------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Nominal Output Voltage                        | 12V                                                           | 12V                                                           | 12V                                                           | 12V                                                           | 12V                                                           |
| LED System Voltage Range in CC Mode           | 6-12Vdc                                                       | 6-12Vdc                                                       | 6-12Vdc                                                       | 6-12Vdc                                                       | 6-12Vdc                                                       |
| Output Voltage Adjustment Range <sup>1)</sup> | 10.8-13.5V                                                    | 10.8-13.5V                                                    | 10.8-13.5V                                                    | 10.8-13.5V                                                    | 10.8-13.5V                                                    |
| Nominal Output Current                        | 8.0A                                                          | 10.0A                                                         | 12.5A                                                         | 13.0A                                                         | 22.5A                                                         |
| Output Current Adjustment Range <sup>1)</sup> | 4.0-8.0A                                                      | 5.0-10.0A                                                     | 6.25-12.5A                                                    | 6.5-13.0A                                                     | 11.25-22.5A                                                   |
| Output Power                                  | 96W                                                           | 120W                                                          | 150W                                                          | 156W                                                          | 270W                                                          |
| Line Regulation                               | ± 0.5% (@ 90-305Vac)                                          |                                                               |                                                               |                                                               |                                                               |
| Load Regulation (0-95% Load)                  | ± 2% (@ 90-305Vac)                                            |                                                               |                                                               |                                                               |                                                               |
| PARD (20MHz)                                  | < 150mVpp                                                     |                                                               |                                                               |                                                               |                                                               |
| Hold-up Time                                  | 16ms typ. @ 115Vac & 230Vac & 277Vac (100% load)              |                                                               |                                                               |                                                               |                                                               |
| INPUT                                         |                                                               |                                                               |                                                               |                                                               |                                                               |
| Input Voltage Range                           | 90-305Vac                                                     |                                                               |                                                               |                                                               |                                                               |
| Input Frequency                               | 47-63Hz                                                       |                                                               |                                                               |                                                               |                                                               |
| Input Current                                 | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac | 1.90A max. @ 115Vac, 0.90A max. @ 230Vac, 0.80A max. @ 277Vac | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac, 1.45A max. @ 277Vac |
| Efficiency at 100% Load                       | 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac & 277Vac             | 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac & 277Vac             | 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac, 91.0% typ. @ 277Vac | 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac & 277Vac             | 89.5% typ. @ 115Vac, 90.5% typ. @ 230Vac, 91.0% typ. @ 277Vac |
| Max Inrush Current (Cold Start)               | 65A typ. @ 230Vac                                             |                                                               |                                                               |                                                               |                                                               |
| Power Factor                                  | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.93 typ. @ 277Vac    |                                                               | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.92 typ. @ 277Vac    |                                                               |                                                               |
| Leakage Current                               | < 0.75mA @ 305Vac                                             |                                                               |                                                               |                                                               | < 0.75mA @ 277Vac                                             |
| MECHANICAL                                    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Case Cover / Chassis                          | Aluminium                                                     |                                                               |                                                               |                                                               |                                                               |
| Dimensions (L × W × H)                        | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72")                    |
| Unit Weight                                   | 0.98 kg (2.16 lb)                                             | 0.98 kg (2.16 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.70 kg (3.75 lb)                                             |
| Cooling System                                | Convection                                                    |                                                               |                                                               |                                                               |                                                               |
| Input Cable                                   | UL                                                            | SJTW 18AWGX3C (Line: Brown, Neutral: Blue, PE: Green/Yellow)  |                                                               |                                                               |                                                               |
| Output Cable                                  | UL                                                            | SJTW 14AWGX2C (Positive: Red, Negative: Black)                |                                                               |                                                               |                                                               |
| Dimming Cable                                 | UL                                                            | SJTW 18AWGX2C (Positive: White, Negative: Blue)               |                                                               |                                                               |                                                               |
| MTBF <sup>2)</sup>                            | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 |
| ENVIRONMENT                                   |                                                               |                                                               |                                                               |                                                               |                                                               |
| Operating Temperature                         | -40°C to +70°C                                                |                                                               |                                                               |                                                               |                                                               |
| Storage Temperature                           | -40°C to +85°C                                                |                                                               |                                                               |                                                               |                                                               |
| Power De-rating <sup>3)</sup>                 | > 60°C (4% / °C)                                              |                                                               |                                                               |                                                               |                                                               |
| Operating Humidity                            | 5 to 95% RH (Non-Condensing)                                  |                                                               |                                                               |                                                               |                                                               |
| Operating Altitude                            | 0 to 3,000m (0 to 9,840 ft)                                   |                                                               |                                                               |                                                               |                                                               |
| Degree of Protection                          | IP65 (LNE-12V□WA□A); IP67 (LNE-12V320WB□A, LNE-12V□WD□A)      |                                                               |                                                               |                                                               |                                                               |

#### Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# LNE LED Driver

## 12V Output (International AC Voltage)

# LNE

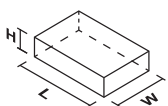
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-264Vac
- Up to 92.0% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |     | LNE-12V100W□□CA                                                            | LNE-12V120W□□CA                            | LNE-12V150W□□CA                            | LNE-12V185W□□CA                            | LNE-12V320W□□CA                            |
|-----------------------------------------------|-----|----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Nominal Output Voltage                        |     | 12V                                                                        | 12V                                        | 12V                                        | 12V                                        | 12V                                        |
| LED System Voltage Range in CC Mode           |     | 6-12Vdc                                                                    | 6-12Vdc                                    | 6-12Vdc                                    | 6-12Vdc                                    | 6-12Vdc                                    |
| Output Voltage Adjustment Range <sup>1)</sup> |     | 10.8-13.5V                                                                 | 10.8-13.5V                                 | 10.8-13.5V                                 | 10.8-13.5V                                 | 10.8-13.5V                                 |
| Nominal Output Current                        |     | 8.0A                                                                       | 10.0A                                      | 12.5A                                      | 13.0A                                      | 22.5A                                      |
| Output Current Adjustment Range <sup>1)</sup> |     | 4.0-8.0A                                                                   | 5.0-10.0A                                  | 6.25-12.5A                                 | 6.5-13.0A                                  | 11.25-22.5A                                |
| Output Power                                  |     | 96W                                                                        | 120W                                       | 150W                                       | 156W                                       | 270W                                       |
| Line Regulation                               |     | ± 0.5% (@ 90-264Vac)                                                       |                                            |                                            |                                            |                                            |
| Load Regulation (0-95% Load)                  |     | ± 2% (@ 90-264Vac)                                                         |                                            |                                            |                                            |                                            |
| PARD (20MHz)                                  |     | < 150mVpp                                                                  |                                            |                                            |                                            |                                            |
| Hold-up Time                                  |     | 16ms typ. @ 115Vac & 230Vac (100% load)                                    |                                            |                                            |                                            |                                            |
| INPUT                                         |     |                                                                            |                                            |                                            |                                            |                                            |
| Input Voltage Range                           |     | 90-264Vac                                                                  |                                            |                                            |                                            |                                            |
| Input Frequency                               |     | 47-63Hz                                                                    |                                            |                                            |                                            |                                            |
| Input Current                                 |     | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac                                   | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac   | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac   | 1.90A max. @ 115Vac, 0.90A max. @ 230Vac   | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac   |
| Efficiency at 100% Load                       |     | 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac                                   | 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac   | 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac   | 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac   | 89.5% typ. @ 115Vac, 90.5% typ. @ 230Vac   |
| Max Inrush Current (Cold Start)               |     | 65A typ. @ 230Vac                                                          |                                            |                                            |                                            |                                            |
| Power Factor                                  |     | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac                                     |                                            |                                            |                                            |                                            |
| Leakage Current                               |     | < 0.75mA @ 264Vac                                                          |                                            |                                            |                                            | < 0.75mA @ 277Vac                          |
| MECHANICAL                                    |     |                                                                            |                                            |                                            |                                            |                                            |
| Case Cover / Chassis                          |     | Aluminium                                                                  |                                            |                                            |                                            |                                            |
| Dimensions (L × W × H)                        |     | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                                 | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72") |
| Unit Weight                                   |     | 0.98 kg (2.16 lb)                                                          | 0.98 kg (2.16 lb)                          | 1.04 kg (2.29 lb)                          | 1.04 kg (2.29 lb)                          | 1.70 kg (3.75 lb)                          |
| Cooling System                                |     | Convection                                                                 |                                            |                                            |                                            |                                            |
| Input Cable                                   | VDE | H05RN-F3G1.0mm <sup>2</sup> (Line: Brown, Neutral: Blue, PE: Green/Yellow) |                                            |                                            |                                            |                                            |
| Output Cable                                  | VDE | H07RN-F2x1.5mm <sup>2</sup> (Positive: Red, Negative: Black)               |                                            |                                            |                                            |                                            |
| Dimming Cable                                 | VDE | H05RN-F2x1.0mm <sup>2</sup> (Positive: White, Negative: Blue)              |                                            |                                            |                                            |                                            |
| MTBF <sup>2)</sup>                            |     | > 700,000 hrs                                                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              |
| ENVIRONMENT                                   |     |                                                                            |                                            |                                            |                                            |                                            |
| Operating Temperature                         |     | -40°C to +70°C                                                             |                                            |                                            |                                            |                                            |
| Storage Temperature                           |     | -40°C to +85°C                                                             |                                            |                                            |                                            |                                            |
| Power De-rating <sup>3)</sup>                 |     | > 60°C (4% / °C)                                                           |                                            |                                            |                                            |                                            |
| Operating Humidity                            |     | 5 to 95% RH (Non-Condensing)                                               |                                            |                                            |                                            |                                            |
| Operating Altitude                            |     | 0 to 3,000m (0 to 9,840 ft)                                                |                                            |                                            |                                            |                                            |
| Degree of Protection                          |     | IP65 (LNE-12V□□WA□□A); IP67 (LNE-12V320WB□□A, LNE-12V□WD□□A)               |                                            |                                            |                                            |                                            |

Dimensions Reference



#### Notes

- 1) For LNE-□□WA□□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 24V Output (North American AC Voltage)

## LNE

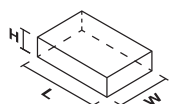
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |    | LNE-24V100W□AA                                                | LNE-24V120W□AA                                                | LNE-24V150W□AA                                                | LNE-24V185W□AA                                                | LNE-24V320W□AA                                                |
|-----------------------------------------------|----|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Nominal Output Voltage                        |    | 24V                                                           | 24V                                                           | 24V                                                           | 24V                                                           | 24V                                                           |
| LED System Voltage Range in CC Mode           |    | 12-24Vdc                                                      | 12-24Vdc                                                      | 12-24Vdc                                                      | 12-24Vdc                                                      | 12-24Vdc                                                      |
| Output Voltage Adjustment Range <sup>1)</sup> |    | 22.0-27.0V                                                    | 22.0-27.0V                                                    | 22.0-27.0V                                                    | 22.0-27.0V                                                    | 22.0-27.0V                                                    |
| Nominal Output Current                        |    | 4.0A                                                          | 5.0A                                                          | 6.3A                                                          | 7.8A                                                          | 13.4A                                                         |
| Output Current Adjustment Range <sup>1)</sup> |    | 2.0-4.0A                                                      | 2.5-5.0A                                                      | 3.15-6.3A                                                     | 3.9-7.8A                                                      | 6.67-13.4A                                                    |
| Output Power                                  |    | 96W                                                           | 120W                                                          | 151.2W                                                        | 187.2W                                                        | 320W                                                          |
| Line Regulation                               |    | ± 0.5% (@ 90-305Vac)                                          |                                                               |                                                               |                                                               |                                                               |
| Load Regulation (0-95% Load)                  |    | ± 1% (@ 90-305Vac)                                            |                                                               |                                                               |                                                               | ± 0.5% (@ 90-305Vac)                                          |
| PARD (20MHz)                                  |    | < 150mVpp                                                     |                                                               |                                                               |                                                               |                                                               |
| Hold-up Time                                  |    | 16ms typ. @ 115Vac & 230Vac & 277Vac (100% load)              |                                                               |                                                               |                                                               |                                                               |
| INPUT                                         |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Input Voltage Range                           |    | 90-305Vac                                                     |                                                               |                                                               |                                                               |                                                               |
| Input Frequency                               |    | 47-63Hz                                                       |                                                               |                                                               |                                                               |                                                               |
| Input Current                                 |    | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac | 2.20A max. @ 115Vac, 1.00A max. @ 230Vac, 0.90A max. @ 277Vac | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac, 1.45A max. @ 277Vac |
| Efficiency at 100% Load                       |    | 92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac             | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac             | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac             | 91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac & 277Vac             | 91.5% typ. @ 115Vac, 93.5% typ. @ 230Vac, 94.0% typ. @ 277Vac |
| Max Inrush Current (Cold Start)               |    | 65A typ. @ 230Vac                                             |                                                               |                                                               |                                                               |                                                               |
| Power Factor                                  |    | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.93 typ. @ 277Vac    |                                                               | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.92 typ. @ 277Vac    |                                                               |                                                               |
| Leakage Current                               |    | < 0.75mA @ 305Vac                                             |                                                               |                                                               |                                                               | < 0.75mA @ 277Vac                                             |
| MECHANICAL                                    |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Case Cover / Chassis                          |    | Aluminium                                                     |                                                               |                                                               |                                                               |                                                               |
| Dimensions (L × W × H)                        |    | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72")                    |
| Unit Weight                                   |    | 0.98 kg (2.16 lb)                                             | 0.98 kg (2.16 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.70 kg (3.75 lb)                                             |
| Cooling System                                |    | Convection                                                    |                                                               |                                                               |                                                               |                                                               |
| Input Cable                                   | UL | SJTW 18AWGX3C (Line: Brown, Neutral: Blue, PE: Green/Yellow)  |                                                               |                                                               |                                                               |                                                               |
| Output Cable                                  | UL | SJTW 14AWGX2C (Positive: Red, Negative: Black)                |                                                               |                                                               |                                                               |                                                               |
| Dimming Cable                                 | UL | SJTW 18AWGX2C (Positive: White, Negative: Blue)               |                                                               |                                                               |                                                               |                                                               |
| MTBF <sup>2)</sup>                            |    | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 |
| ENVIRONMENT                                   |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Operating Temperature                         |    | -40°C to +70°C                                                |                                                               |                                                               |                                                               |                                                               |
| Storage Temperature                           |    | -40°C to +85°C                                                |                                                               |                                                               |                                                               |                                                               |
| Power De-rating <sup>3)</sup>                 |    | > 60°C (4% / °C)                                              |                                                               |                                                               |                                                               |                                                               |
| Operating Humidity                            |    | 5 to 95% RH (Non-Condensing)                                  |                                                               |                                                               |                                                               |                                                               |
| Operating Altitude                            |    | 0 to 3,000m (0 to 9,840 ft)                                   |                                                               |                                                               |                                                               |                                                               |
| Degree of Protection                          |    | IP65 (LNE-24V□WA□A); IP67 (LNE-24V320WB□A, LNE-24V□WD□A)      |                                                               |                                                               |                                                               |                                                               |

#### Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# LNE LED Driver

## 24V Output (International AC Voltage)

# LNE

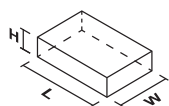
### HIGHLIGHTS & FEATURES

- Meet ErP Directive (2009/125/EC) for 320W only
- Universal AC input voltage range 90-264Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |     | LNE-24V100W□□CA                                                            | LNE-24V120W□□CA                            | LNE-24V150W□□CA                            | LNE-24V185W□□CA                            | LNE-24V320W□□CA                            |
|-----------------------------------------------|-----|----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Nominal Output Voltage                        |     | 24V                                                                        | 24V                                        | 24V                                        | 24V                                        | 24V                                        |
| LED System Voltage Range in CC Mode           |     | 12-24Vdc                                                                   | 12-24Vdc                                   | 12-24Vdc                                   | 12-24Vdc                                   | 12-24Vdc                                   |
| Output Voltage Adjustment Range <sup>1)</sup> |     | 22.0-27.0V                                                                 | 22.0-27.0V                                 | 22.0-27.0V                                 | 22.0-27.0V                                 | 22.0-27.0V                                 |
| Nominal Output Current                        |     | 4.0A                                                                       | 5.0A                                       | 6.3A                                       | 7.8A                                       | 13.4A                                      |
| Output Current Adjustment Range <sup>1)</sup> |     | 2.0-4.0A                                                                   | 2.5-5.0A                                   | 3.15-6.3A                                  | 3.9-7.8A                                   | 6.67-13.4A                                 |
| Output Power                                  |     | 96W                                                                        | 120W                                       | 151.2W                                     | 187.2W                                     | 320W                                       |
| Line Regulation                               |     | ± 0.5% (@ 90-264Vac)                                                       |                                            |                                            |                                            |                                            |
| Load Regulation (0-95% Load)                  |     | ± 1% (@ 90-264Vac)                                                         |                                            |                                            |                                            | ± 0.5% (@ 90-264Vac)                       |
| PARD (20MHz)                                  |     | < 150mVpp                                                                  |                                            |                                            |                                            |                                            |
| Hold-up Time                                  |     | 16ms typ. @ 115Vac & 230Vac (100% load)                                    |                                            |                                            |                                            |                                            |
| INPUT                                         |     |                                                                            |                                            |                                            |                                            |                                            |
| Input Voltage Range                           |     | 90-264Vac                                                                  |                                            |                                            |                                            |                                            |
| Input Frequency                               |     | 47-63Hz                                                                    |                                            |                                            |                                            |                                            |
| Input Current                                 |     | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac                                   | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac   | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac   | 2.20A max. @ 115Vac, 1.00A max. @ 230Vac   | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac   |
| Efficiency at 100% Load                       |     | 92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac                                   | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac   | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac   | 91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac   | 91.5% typ. @ 115Vac, 93.5% typ. @ 230Vac   |
| Max Inrush Current (Cold Start)               |     | 65A typ. @ 230Vac                                                          |                                            |                                            |                                            |                                            |
| Power Factor                                  |     | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac                                     |                                            |                                            |                                            |                                            |
| Leakage Current                               |     | < 0.75mA @ 264Vac                                                          |                                            |                                            |                                            | < 0.75mA @ 277Vac                          |
| MECHANICAL                                    |     |                                                                            |                                            |                                            |                                            |                                            |
| Case Cover / Chassis                          |     | Aluminium                                                                  |                                            |                                            |                                            |                                            |
| Dimensions (L × W × H)                        |     | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                                 | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72") |
| Unit Weight                                   |     | 0.98 kg (2.16 lb)                                                          | 0.98 kg (2.16 lb)                          | 1.04 kg (2.29 lb)                          | 1.04 kg (2.29 lb)                          | 1.70 kg (3.75 lb)                          |
| Cooling System                                |     | Convection                                                                 |                                            |                                            |                                            |                                            |
| Input Cable                                   | VDE | H05RN-F3G1.0mm <sup>2</sup> (Line: Brown, Neutral: Blue, PE: Green/Yellow) |                                            |                                            |                                            |                                            |
| Output Cable                                  | VDE | H07RN-F2x1.5mm <sup>2</sup> (Positive: Red, Negative: Black)               |                                            |                                            |                                            |                                            |
| Dimming Cable                                 | VDE | H05RN-F2x1.0mm <sup>2</sup> (Positive: White, Negative: Blue)              |                                            |                                            |                                            |                                            |
| MTBF <sup>2)</sup>                            |     | > 700,000 hrs                                                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              |
| ENVIRONMENT                                   |     |                                                                            |                                            |                                            |                                            |                                            |
| Operating Temperature                         |     | -40°C to +70°C                                                             |                                            |                                            |                                            |                                            |
| Storage Temperature                           |     | -40°C to +85°C                                                             |                                            |                                            |                                            |                                            |
| Power De-rating <sup>3)</sup>                 |     | > 60°C (4% / °C)                                                           |                                            |                                            |                                            |                                            |
| Operating Humidity                            |     | 5 to 95% RH (Non-Condensing)                                               |                                            |                                            |                                            |                                            |
| Operating Altitude                            |     | 0 to 3,000m (0 to 9,840 ft)                                                |                                            |                                            |                                            |                                            |
| Degree of Protection                          |     | IP65 (LNE-24V□□WA□□A); IP67 (LNE-24V320WB□□A, LNE-24V□WD□□A)               |                                            |                                            |                                            |                                            |

Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 36V Output (North American AC Voltage)

## LNE

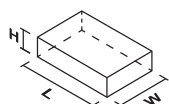
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |    | LNE-36V100W□AA                                                | LNE-36V120W□AA                                                | LNE-36V150W□AA                                                | LNE-36V185W□AA                                                | LNE-36V320W□AA                                                |
|-----------------------------------------------|----|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Nominal Output Voltage                        |    | 36V                                                           | 36V                                                           | 36V                                                           | 36V                                                           | 36V                                                           |
| LED System Voltage Range in CC Mode           |    | 18-36Vdc                                                      | 18-36Vdc                                                      | 18-36Vdc                                                      | 18-36Vdc                                                      | 18-36Vdc                                                      |
| Output Voltage Adjustment Range <sup>1)</sup> |    | 33.0-40.0V                                                    | 33.0-40.0V                                                    | 33.0-40.0V                                                    | 33.0-40.0V                                                    | 33.0-40.0V                                                    |
| Nominal Output Current                        |    | 2.65A                                                         | 3.4A                                                          | 4.2A                                                          | 5.2A                                                          | 8.9A                                                          |
| Output Current Adjustment Range <sup>1)</sup> |    | 1.325-2.65A                                                   | 1.7-3.4A                                                      | 2.1-4.2A                                                      | 2.6-5.2A                                                      | 4.45-8.9A                                                     |
| Output Power                                  |    | 95.4W                                                         | 122.4W                                                        | 151.2W                                                        | 187.2W                                                        | 320W                                                          |
| Line Regulation                               |    | ± 0.5% (@ 90-305Vac)                                          |                                                               |                                                               |                                                               |                                                               |
| Load Regulation (0-95% Load)                  |    | ± 0.5% (@ 90-305Vac)                                          |                                                               | ± 1% (@ 90-305Vac)                                            |                                                               | ± 0.5% (@ 90-305Vac)                                          |
| PARD (20MHz)                                  |    | < 200mVpp                                                     |                                                               |                                                               |                                                               |                                                               |
| Hold-up Time                                  |    | 16ms typ. @ 115Vac & 230Vac & 277Vac (100% load)              |                                                               |                                                               |                                                               |                                                               |
| INPUT                                         |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Input Voltage Range                           |    | 90-305Vac                                                     |                                                               |                                                               |                                                               |                                                               |
| Input Frequency                               |    | 47-63Hz                                                       |                                                               |                                                               |                                                               |                                                               |
| Input Current                                 |    | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac | 2.20A max. @ 115Vac, 1.00A max. @ 230Vac, 0.90A max. @ 277Vac | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac, 1.45A max. @ 277Vac |
| Efficiency at 100% Load                       |    | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac, 92.5% typ. @ 277Vac | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac             | 91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac, 93.0% typ. @ 277Vac | 91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac & 277Vac             | 92.5% typ. @ 115Vac, 94.5% typ. @ 230Vac & 277Vac             |
| Max Inrush Current (Cold Start)               |    | 65A typ. @ 230Vac                                             |                                                               |                                                               |                                                               |                                                               |
| Power Factor                                  |    | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.93 typ. @ 277Vac    |                                                               | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.92 typ. @ 277Vac    |                                                               |                                                               |
| Leakage Current                               |    | < 0.75mA @ 305Vac                                             |                                                               |                                                               |                                                               |                                                               |
|                                               |    | < 0.75mA @ 277Vac                                             |                                                               |                                                               |                                                               |                                                               |
| MECHANICAL                                    |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Case Cover / Chassis                          |    | Aluminium                                                     |                                                               |                                                               |                                                               |                                                               |
| Dimensions (L × W × H)                        |    | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72")                    |
| Unit Weight                                   |    | 0.98 kg (2.16 lb)                                             | 0.98 kg (2.16 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.70 kg (3.75 lb)                                             |
| Cooling System                                |    | Convection                                                    |                                                               |                                                               |                                                               |                                                               |
| Input Cable                                   | UL | SJTW 18AWGX3C (Line: Brown, Neutral: Blue, PE: Green/Yellow)  |                                                               |                                                               |                                                               |                                                               |
| Output Cable                                  | UL | SJTW 14AWGX2C (Positive: Red, Negative: Black)                |                                                               |                                                               |                                                               |                                                               |
| Dimming Cable                                 | UL | SJTW 18AWGX2C (Positive: White, Negative: Blue)               |                                                               |                                                               |                                                               |                                                               |
| MTBF <sup>2)</sup>                            |    | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 |
| ENVIRONMENT                                   |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Operating Temperature                         |    | -40°C to +70°C                                                |                                                               |                                                               |                                                               |                                                               |
| Storage Temperature                           |    | -40°C to +85°C                                                |                                                               |                                                               |                                                               |                                                               |
| Power De-rating <sup>3)</sup>                 |    | > 60°C (4% / °C)                                              |                                                               |                                                               |                                                               |                                                               |
| Operating Humidity                            |    | 5 to 95% RH (Non-Condensing)                                  |                                                               |                                                               |                                                               |                                                               |
| Operating Altitude                            |    | 0 to 3,000m (0 to 9,840 ft)                                   |                                                               |                                                               |                                                               |                                                               |
| Degree of Protection                          |    | IP65 (LNE-36V□WA□A); IP67 (LNE-36V320WB□A, LNE-36V□WD□A)      |                                                               |                                                               |                                                               |                                                               |

#### Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# LNE LED Driver

## 36V Output (International AC Voltage)

# LNE

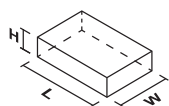
### HIGHLIGHTS & FEATURES

- Meet ErP Directive (2009/125/EC) for 320W only
- Universal AC input voltage range 90-264Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |     | LNE-36V100W□□CA                                                            | LNE-36V120W□□CA                            | LNE-36V150W□□CA                            | LNE-36V185W□□CA                            | LNE-36V320W□□CA                            |
|-----------------------------------------------|-----|----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Nominal Output Voltage                        |     | 36V                                                                        | 36V                                        | 36V                                        | 36V                                        | 36V                                        |
| LED System Voltage Range in CC Mode           |     | 18-36Vdc                                                                   | 18-36Vdc                                   | 18-36Vdc                                   | 18-36Vdc                                   | 18-36Vdc                                   |
| Output Voltage Adjustment Range <sup>1)</sup> |     | 33.0-40.0V                                                                 | 33.0-40.0V                                 | 33.0-40.0V                                 | 33.0-40.0V                                 | 33.0-40.0V                                 |
| Nominal Output Current                        |     | 2.65A                                                                      | 3.4A                                       | 4.2A                                       | 5.2A                                       | 8.9A                                       |
| Output Current Adjustment Range <sup>1)</sup> |     | 1.325-2.65A                                                                | 1.7-3.4A                                   | 2.1-4.2A                                   | 2.6-5.2A                                   | 4.45-8.9A                                  |
| Output Power                                  |     | 95.4W                                                                      | 122.4W                                     | 151.2W                                     | 187.2W                                     | 320W                                       |
| Line Regulation                               |     | ± 0.5% (@ 90-264Vac)                                                       |                                            |                                            |                                            |                                            |
| Load Regulation (0-95% Load)                  |     | ± 0.5% (@ 90-264Vac)                                                       |                                            | ± 1% (@ 90-264Vac)                         |                                            | ± 0.5% (@ 90-264Vac)                       |
| PARD (20MHz)                                  |     | < 200mVpp                                                                  |                                            |                                            |                                            |                                            |
| Hold-up Time                                  |     | 16ms typ. @ 115Vac & 230Vac (100% load)                                    |                                            |                                            |                                            |                                            |
| INPUT                                         |     |                                                                            |                                            |                                            |                                            |                                            |
| Input Voltage Range                           |     | 90-264Vac                                                                  |                                            |                                            |                                            |                                            |
| Input Frequency                               |     | 47-63Hz                                                                    |                                            |                                            |                                            |                                            |
| Input Current                                 |     | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac                                   | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac   | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac   | 2.20A max. @ 115Vac, 1.00A max. @ 230Vac   | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac   |
| Efficiency at 100% Load                       |     | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac                                   | 91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac   | 91.0% typ. @ 115Vac, 93.0% typ. @ 230Vac   | 91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac   | 92.5% typ. @ 115Vac, 94.5% typ. @ 230Vac   |
| Max Inrush Current (Cold Start)               |     | 65A typ. @ 230Vac                                                          |                                            |                                            |                                            |                                            |
| Power Factor                                  |     | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac                                     |                                            |                                            |                                            |                                            |
| Leakage Current                               |     | < 0.75mA @ 264Vac                                                          |                                            |                                            |                                            |                                            |
|                                               |     | < 0.75mA @ 277Vac                                                          |                                            |                                            |                                            |                                            |
| MECHANICAL                                    |     |                                                                            |                                            |                                            |                                            |                                            |
| Case Cover / Chassis                          |     | Aluminium                                                                  |                                            |                                            |                                            |                                            |
| Dimensions (L × W × H)                        |     | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                                 | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72") |
| Unit Weight                                   |     | 0.98 kg (2.16 lb)                                                          | 0.98 kg (2.16 lb)                          | 1.04 kg (2.29 lb)                          | 1.04 kg (2.29 lb)                          | 1.70 kg (3.75 lb)                          |
| Cooling System                                |     | Convection                                                                 |                                            |                                            |                                            |                                            |
| Input Cable                                   | VDE | H05RN-F3G1.0mm <sup>2</sup> (Line: Brown, Neutral: Blue, PE: Green/Yellow) |                                            |                                            |                                            |                                            |
| Output Cable                                  | VDE | H07RN-F2x1.5mm <sup>2</sup> (Positive: Red, Negative: Black)               |                                            |                                            |                                            |                                            |
| Dimming Cable                                 | VDE | H05RN-F2x1.0mm <sup>2</sup> (Positive: White, Negative: Blue)              |                                            |                                            |                                            |                                            |
| MTBF <sup>2)</sup>                            |     | > 700,000 hrs                                                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              |
| ENVIRONMENT                                   |     |                                                                            |                                            |                                            |                                            |                                            |
| Operating Temperature                         |     | -40°C to +70°C                                                             |                                            |                                            |                                            |                                            |
| Storage Temperature                           |     | -40°C to +85°C                                                             |                                            |                                            |                                            |                                            |
| Power De-rating <sup>3)</sup>                 |     | > 60°C (4% / °C)                                                           |                                            |                                            |                                            |                                            |
| Operating Humidity                            |     | 5 to 95% RH (Non-Condensing)                                               |                                            |                                            |                                            |                                            |
| Operating Altitude                            |     | 0 to 3,000m (0 to 9,840 ft)                                                |                                            |                                            |                                            |                                            |
| Degree of Protection                          |     | IP65 (LNE-36V□□WA□□A); IP67 (LNE-36V320WB□□A, LNE-36V□WD□□A)               |                                            |                                            |                                            |                                            |

Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# 48V Output (North American AC Voltage)

## LNE

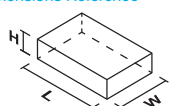
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |    | LNE-48V100W□AA                                                | LNE-48V120W□AA                                                | LNE-48V150W□AA                                                | LNE-48V185W□AA                                                | LNE-48V320W□AA                                                |
|-----------------------------------------------|----|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Nominal Output Voltage                        |    | 48V                                                           | 48V                                                           | 48V                                                           | 48V                                                           | 48V                                                           |
| LED System Voltage Range in CC Mode           |    | 24-48Vdc                                                      | 24-48Vdc                                                      | 24-48Vdc                                                      | 24-48Vdc                                                      | 24-48Vdc                                                      |
| Output Voltage Adjustment Range <sup>1)</sup> |    | 43.0-53.0V                                                    | 43.0-53.0V                                                    | 43.0-53.0V                                                    | 43.0-53.0V                                                    | 43.0-53.0V                                                    |
| Nominal Output Current                        |    | 2.0A                                                          | 2.5A                                                          | 3.2A                                                          | 3.9A                                                          | 6.7A                                                          |
| Output Current Adjustment Range <sup>1)</sup> |    | 1.0-2.0A                                                      | 1.25-2.5A                                                     | 1.6-3.2A                                                      | 1.95-3.9A                                                     | 3.35-6.7A                                                     |
| Output Power                                  |    | 96W                                                           | 120W                                                          | 153.6W                                                        | 187.2W                                                        | 320W                                                          |
| Line Regulation                               |    | ± 0.5% (@ 90-305Vac)                                          |                                                               |                                                               |                                                               |                                                               |
| Load Regulation (0-95% Load)                  |    | ± 0.5% (@ 90-305Vac)                                          |                                                               |                                                               |                                                               |                                                               |
| PARD (20MHz)                                  |    | < 200mVpp                                                     |                                                               |                                                               |                                                               | < 250mVpp                                                     |
| Hold-up Time                                  |    | 16ms typ. @ 115Vac & 230Vac & 277Vac (100% load)              |                                                               |                                                               |                                                               |                                                               |
| INPUT                                         |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Input Voltage Range                           |    | 90-305Vac                                                     |                                                               |                                                               |                                                               |                                                               |
| Input Frequency                               |    | 47-63Hz                                                       |                                                               |                                                               |                                                               |                                                               |
| Input Current                                 |    | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac | 2.20A max. @ 115Vac, 1.00A max. @ 230Vac, 0.90A max. @ 277Vac | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac, 1.45A max. @ 277Vac |
| Efficiency at 100% Load                       |    | 92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac             | 92.0% typ. @ 115Vac, 93.5% typ. @ 230Vac & 277Vac             | 91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac & 277Vac             | 91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac & 277Vac             | 93.0% typ. @ 115Vac, 94.5% typ. @ 230Vac & 277Vac             |
| Max Inrush Current (Cold Start)               |    | 65A typ. @ 230Vac                                             |                                                               |                                                               |                                                               |                                                               |
| Power Factor                                  |    | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.93 typ. @ 277Vac    |                                                               | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.92 typ. @ 277Vac    |                                                               |                                                               |
| Leakage Current                               |    | < 0.75mA @ 305Vac                                             |                                                               |                                                               |                                                               | < 0.75mA @ 277Vac                                             |
| MECHANICAL                                    |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Case Cover / Chassis                          |    | Aluminium                                                     |                                                               |                                                               |                                                               |                                                               |
| Dimensions (L × W × H)                        |    | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53")                    | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72")                    |
| Unit Weight                                   |    | 0.98 kg (2.16 lb)                                             | 0.98 kg (2.16 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.04 kg (2.29 lb)                                             | 1.70 kg (3.75 lb)                                             |
| Cooling System                                |    | Convection                                                    |                                                               |                                                               |                                                               |                                                               |
| Input Cable                                   | UL | SJTW 18AWGX3C (Line: Brown, Neutral: Blue, PE: Green/Yellow)  |                                                               |                                                               |                                                               |                                                               |
| Output Cable                                  | UL | SJTW 14AWGX2C (Positive: Red, Negative: Black)                |                                                               |                                                               |                                                               |                                                               |
| Dimming Cable                                 | UL | SJTW 18AWGX2C (Positive: White, Negative: Blue)               |                                                               |                                                               |                                                               |                                                               |
| MTBF <sup>2)</sup>                            |    | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 | > 700,000 hrs                                                 |
| ENVIRONMENT                                   |    |                                                               |                                                               |                                                               |                                                               |                                                               |
| Operating Temperature                         |    | -40°C to +70°C                                                |                                                               |                                                               |                                                               |                                                               |
| Storage Temperature                           |    | -40°C to +85°C                                                |                                                               |                                                               |                                                               |                                                               |
| Power De-rating <sup>3)</sup>                 |    | > 60°C (4% / °C)                                              |                                                               |                                                               |                                                               |                                                               |
| Operating Humidity                            |    | 5 to 95% RH (Non-Condensing)                                  |                                                               |                                                               |                                                               |                                                               |
| Operating Altitude                            |    | 0 to 3,000m (0 to 9,840 ft)                                   |                                                               |                                                               |                                                               |                                                               |
| Degree of Protection                          |    | IP65 (LNE-48V□WA□A): IP67 (LNE-48V320WB□A, LNE-48V□WD□A)      |                                                               |                                                               |                                                               |                                                               |

#### Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# LNE LED Driver

## 48V Output (International AC Voltage)

# LNE

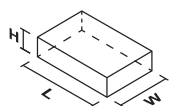
### HIGHLIGHTS & FEATURES

- Meet ErP Directive (2009/125/EC) for 320W only
- Universal AC input voltage range 90-264Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |     | LNE-48V100W□□CA                                                            | LNE-48V120W□□CA                            | LNE-48V150W□□CA                            | LNE-48V185W□□CA                            | LNE-48V320W□□CA                            |
|-----------------------------------------------|-----|----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Nominal Output Voltage                        |     | 48V                                                                        | 48V                                        | 48V                                        | 48V                                        | 48V                                        |
| LED System Voltage Range in CC Mode           |     | 24-48Vdc                                                                   | 24-48Vdc                                   | 24-48Vdc                                   | 24-48Vdc                                   | 24-48Vdc                                   |
| Output Voltage Adjustment Range <sup>1)</sup> |     | 43.0-53.0V                                                                 | 43.0-53.0V                                 | 43.0-53.0V                                 | 43.0-53.0V                                 | 43.0-53.0V                                 |
| Nominal Output Current                        |     | 2.0A                                                                       | 2.5A                                       | 3.2A                                       | 3.9A                                       | 6.7A                                       |
| Output Current Adjustment Range <sup>1)</sup> |     | 1.0-2.0A                                                                   | 1.25-2.5A                                  | 1.6-3.2A                                   | 1.95-3.9A                                  | 3.35-6.7A                                  |
| Output Power                                  |     | 96W                                                                        | 120W                                       | 153.6W                                     | 187.2W                                     | 320W                                       |
| Line Regulation                               |     | ± 0.5% (@ 90-264Vac)                                                       |                                            |                                            |                                            |                                            |
| Load Regulation (0-95% Load)                  |     | ± 0.5% (@ 90-264Vac)                                                       |                                            |                                            |                                            |                                            |
| PARD (20MHz)                                  |     | < 200mVpp                                                                  |                                            |                                            |                                            | < 250mVpp                                  |
| Hold-up Time                                  |     | 16ms typ. @ 115Vac & 230Vac (100% load)                                    |                                            |                                            |                                            |                                            |
| INPUT                                         |     |                                                                            |                                            |                                            |                                            |                                            |
| Input Voltage Range                           |     | 90-264Vac                                                                  |                                            |                                            |                                            |                                            |
| Input Frequency                               |     | 47-63Hz                                                                    |                                            |                                            |                                            |                                            |
| Input Current                                 |     | 1.30A max. @ 115Vac, 0.65A max. @ 230Vac                                   | 1.50A max. @ 115Vac, 0.70A max. @ 230Vac   | 1.80A max. @ 115Vac, 0.85A max. @ 230Vac   | 2.20A max. @ 115Vac, 1.00A max. @ 230Vac   | 3.50A max. @ 115Vac, 1.65A max. @ 230Vac   |
| Efficiency at 100% Load                       |     | 92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac                                   | 92.0% typ. @ 115Vac, 93.5% typ. @ 230Vac   | 91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac   | 91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac   | 93.0% typ. @ 115Vac, 94.5% typ. @ 230Vac   |
| Max Inrush Current (Cold Start)               |     | 65A typ. @ 230Vac                                                          |                                            |                                            |                                            |                                            |
| Power Factor                                  |     | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac                                     |                                            |                                            |                                            |                                            |
| Leakage Current                               |     | < 0.75mA @ 264Vac                                                          |                                            |                                            |                                            | < 0.75mA @ 277Vac                          |
| MECHANICAL                                    |     |                                                                            |                                            |                                            |                                            |                                            |
| Case Cover / Chassis                          |     | Aluminium                                                                  |                                            |                                            |                                            |                                            |
| Dimensions (L × W × H)                        |     | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53")                                 | 220 × 68 × 38.8 mm (8.66" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 228 × 68 × 38.8 mm (8.98" × 2.68" × 1.53") | 252 × 90 × 43.8 mm (9.92" × 3.54" × 1.72") |
| Unit Weight                                   |     | 0.98 kg (2.16 lb)                                                          | 0.98 kg (2.16 lb)                          | 1.04 kg (2.29 lb)                          | 1.04 kg (2.29 lb)                          | 1.70 kg (3.75 lb)                          |
| Cooling System                                |     | Convection                                                                 |                                            |                                            |                                            |                                            |
| Input Cable                                   | VDE | H05RN-F3G1.0mm <sup>2</sup> (Line: Brown, Neutral: Blue, PE: Green/Yellow) |                                            |                                            |                                            |                                            |
| Output Cable                                  | VDE | H07RN-F2x1.5mm <sup>2</sup> (Positive: Red, Negative: Black)               |                                            |                                            |                                            |                                            |
| Dimming Cable                                 | VDE | H05RN-F2x1.0mm <sup>2</sup> (Positive: White, Negative: Blue)              |                                            |                                            |                                            |                                            |
| MTBF <sup>2)</sup>                            |     | > 700,000 hrs                                                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              | > 700,000 hrs                              |
| ENVIRONMENT                                   |     |                                                                            |                                            |                                            |                                            |                                            |
| Operating Temperature                         |     | -40°C to +70°C                                                             |                                            |                                            |                                            |                                            |
| Storage Temperature                           |     | -40°C to +85°C                                                             |                                            |                                            |                                            |                                            |
| Power De-rating <sup>3)</sup>                 |     | > 60°C (4% / °C)                                                           |                                            |                                            |                                            |                                            |
| Operating Humidity                            |     | 5 to 95% RH (Non-Condensing)                                               |                                            |                                            |                                            |                                            |
| Operating Altitude                            |     | 0 to 3,000m (0 to 9,840 ft)                                                |                                            |                                            |                                            |                                            |
| Degree of Protection                          |     | IP65 (LNE-48V□□WA□□A); IP67 (LNE-48V320WB□□A, LNE-48V□□WD□□A)              |                                            |                                            |                                            |                                            |

Dimensions Reference



#### Notes

- 1) For LNE-□V□W□□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# 54V Output (North American AC Voltage)

## LNE

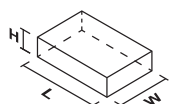
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |    | LNE-54V150W□AA                                                      | LNE-54V185W□AA                                                      |
|-----------------------------------------------|----|---------------------------------------------------------------------|---------------------------------------------------------------------|
| Nominal Output Voltage                        |    | 54V                                                                 | 54V                                                                 |
| LED System Voltage Range in CC Mode           |    | 27-54Vdc                                                            | 27-54Vdc                                                            |
| Output Voltage Adjustment Range <sup>1)</sup> |    | 49.0-58.0V                                                          | 49.0-58.0V                                                          |
| Nominal Output Current                        |    | 2.8A                                                                | 3.45A                                                               |
| Output Current Adjustment Range <sup>1)</sup> |    | 1.4-2.8A                                                            | 1.725-3.45A                                                         |
| Output Power                                  |    | 151.2W                                                              | 186.3W                                                              |
| Line Regulation                               |    | ± 0.5% (@ 90-305Vac)                                                |                                                                     |
| Load Regulation (0-95% Load)                  |    | ± 0.5% (@ 90-305Vac)                                                |                                                                     |
| PARD (20MHz)                                  |    | < 200mVpp                                                           |                                                                     |
| Hold-up Time                                  |    | 16ms typ. @ 115Vac & 230Vac & 277Vac (100% load)                    |                                                                     |
| INPUT                                         |    |                                                                     |                                                                     |
| Input Voltage Range                           |    | 90-305Vac                                                           |                                                                     |
| Input Frequency                               |    | 47-63Hz                                                             |                                                                     |
| Input Current                                 |    | 1.80A max. @ 115Vac,<br>0.85A max. @ 230Vac,<br>0.80A max. @ 277Vac | 2.20A max. @ 115Vac,<br>1.00A max. @ 230Vac,<br>0.90A max. @ 277Vac |
| Efficiency at 100% Load                       |    | 91.5% typ. @ 115Vac,<br>94.0% typ. @ 230Vac & 277Vac                | 91.5% typ. @ 115Vac,<br>94.0% typ. @ 230Vac & 277Vac                |
| Max Inrush Current (Cold Start)               |    | 65A typ. @ 230Vac                                                   |                                                                     |
| Power Factor                                  |    | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.92 typ. @ 277Vac          |                                                                     |
| Leakage Current                               |    | < 0.75mA @ 305Vac                                                   |                                                                     |
| MECHANICAL                                    |    |                                                                     |                                                                     |
| Case Cover / Chassis                          |    | Aluminium                                                           |                                                                     |
| Dimensions (L x W x H)                        |    | 228 × 68 × 38.8 mm<br>(8.98" × 2.68" × 1.53")                       | 228 × 68 × 38.8 mm<br>(8.98" × 2.68" × 1.53")                       |
| Unit Weight                                   |    | 1.04 kg (2.29 lb)                                                   |                                                                     |
| Cooling System                                |    | Convection                                                          |                                                                     |
| Input Cable                                   | UL | SJTW 18AWGX3C (Line: Brown, Neutral: Blue, PE: Green/Yellow)        |                                                                     |
| Output Cable                                  | UL | SJTW 14AWGX2C (Positive: Red, Negative: Black)                      |                                                                     |
| Dimming Cable                                 | UL | SJTW 18AWGX2C (Positive: White, Negative: Blue)                     |                                                                     |
| MTBF <sup>2)</sup>                            |    | > 700,000 hrs                                                       | > 700,000 hrs                                                       |
| ENVIRONMENT                                   |    |                                                                     |                                                                     |
| Operating Temperature                         |    | -40°C to +70°C                                                      |                                                                     |
| Storage Temperature                           |    | -40°C to +85°C                                                      |                                                                     |
| Power De-rating <sup>3)</sup>                 |    | > 60°C (4% / °C)                                                    |                                                                     |
| Operating Humidity                            |    | 5 to 95% RH (Non-Condensing)                                        |                                                                     |
| Operating Altitude                            |    | 0 to 3,000m (0 to 9,840 ft)                                         |                                                                     |
| Degree of Protection                          |    | IP65 (LNE-54V□WA□A); IP67 (LNE-54V□WD□A)                            |                                                                     |

#### Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



# LNE LED Driver

## 54V Output (International AC Voltage)

# LNE

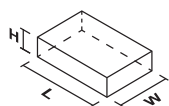
### HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-264Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        |     | LNE-54V150W□CA                                                 | LNE-54V185W□CA                                |
|-----------------------------------------------|-----|----------------------------------------------------------------|-----------------------------------------------|
| Nominal Output Voltage                        |     | 54V                                                            | 54V                                           |
| LED System Voltage Range in CC Mode           |     | 27-54Vdc                                                       | 27-54Vdc                                      |
| Output Voltage Adjustment Range <sup>1)</sup> |     | 49.0-58.0V                                                     | 49.0-58.0V                                    |
| Nominal Output Current                        |     | 2.8A                                                           | 3.45A                                         |
| Output Current Adjustment Range <sup>1)</sup> |     | 1.40-2.8A                                                      | 1.725-3.45A                                   |
| Output Power                                  |     | 151.2W                                                         | 186.3W                                        |
| Line Regulation                               |     | ± 0.5% (@ 90-264Vac)                                           |                                               |
| Load Regulation (0-95% Load)                  |     | ± 0.5% (@ 90-264Vac)                                           |                                               |
| PARD (20MHz)                                  |     | < 200mVpp                                                      |                                               |
| Hold-up Time                                  |     | 16ms typ. @ 115Vac & 230Vac (100% load)                        |                                               |
| INPUT                                         |     |                                                                |                                               |
| Input Voltage Range                           |     | 90-264Vac                                                      |                                               |
| Input Frequency                               |     | 47-63Hz                                                        |                                               |
| Input Current                                 |     | 1.80A max. @ 115Vac,<br>0.85A max. @ 230Vac                    | 2.20A max. @ 115Vac,<br>1.00A max. @ 230Vac   |
| Efficiency at 100% Load                       |     | 91.5% typ. @ 115Vac,<br>94.0% typ. @ 230Vac                    | 91.5% typ. @ 115Vac,<br>94.0% typ. @ 230Vac   |
| Max Inrush Current (Cold Start)               |     | 65A typ. @ 230Vac                                              |                                               |
| Power Factor                                  |     | 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac                         |                                               |
| Leakage Current                               |     | < 0.75mA @ 264Vac                                              |                                               |
| MECHANICAL                                    |     |                                                                |                                               |
| Case Cover / Chassis                          |     | Aluminium                                                      |                                               |
| Dimensions (L x W x H)                        |     | 228 × 68 × 38.8 mm<br>(8.98" × 2.68" × 1.53")                  | 228 × 68 × 38.8 mm<br>(8.98" × 2.68" × 1.53") |
| Unit Weight                                   |     | 1.04 kg (2.29 lb)                                              | 1.04 kg (2.29 lb)                             |
| Cooling System                                |     | Convection                                                     |                                               |
| Input Cable                                   | VDE | H05RN-F3G1.0mm² (Line: Brown, Neutral: Blue, PE: Green/Yellow) |                                               |
| Output Cable                                  | VDE | H07RN-F2x1.5mm² (Positive: Red, Negative: Black)               |                                               |
| Dimming Cable                                 | VDE | H05RN-F2x1.0mm² (Positive: White, Negative: Blue)              |                                               |
| MTBF <sup>2)</sup>                            |     | > 700,000 hrs                                                  | > 700,000 hrs                                 |
| ENVIRONMENT                                   |     |                                                                |                                               |
| Operating Temperature                         |     | -40°C to +70°C                                                 |                                               |
| Storage Temperature                           |     | -40°C to +85°C                                                 |                                               |
| Power De-rating <sup>3)</sup>                 |     | > 60°C (4% / °C)                                               |                                               |
| Operating Humidity                            |     | 5 to 95% RH (Non-Condensing)                                   |                                               |
| Operating Altitude                            |     | 0 to 3,000m (0 to 9,840 ft)                                    |                                               |
| Degree of Protection                          |     | IP65 (LNE-54V□WA□A); IP67 (LNE-54V□WD□A)                       |                                               |

#### Dimensions Reference



#### Notes

- 1) For LNE-□V□WA□A package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# LVN LED Driver

## 12V, 24V, 36V, 48V Output

# LVN

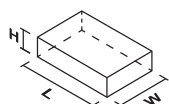
### HIGHLIGHTS & FEATURES

- Designed for single phase (for L – N) or two phase (for L – L) wide input 180-528Vac
- Up to 94.0% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

### GENERAL SPECIFICATIONS

| OUTPUT                                        | LNV-12V320W□AA                                                                             | LNV-24V320W□AA                                                      | LNV-36V320W□AA                                                      | LNV-48V320W□AA                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| Nominal Output Voltage                        | 12Vdc                                                                                      | 24Vdc                                                               | 36Vdc                                                               | 48Vdc                                                               |
| LED System Voltage Range in CC Mode           | 6-12Vdc                                                                                    | 12-24Vdc                                                            | 18-36Vdc                                                            | 24-48Vdc                                                            |
| Output Voltage Adjustment Range <sup>1)</sup> | 10.8-13.5V                                                                                 | 22.0-27.0V                                                          | 33.0-40.0V                                                          | 43.0-53.0V                                                          |
| Nominal Output Current                        | 22.5A                                                                                      | 13.4A                                                               | 8.9A                                                                | 6.7A                                                                |
| Output Current Adjustment Range <sup>1)</sup> | 11.25-22.5A                                                                                | 6.67-13.4A                                                          | 4.45-8.9A                                                           | 3.35-6.7A                                                           |
| Output Power                                  | 270W                                                                                       | 320W                                                                | 320W                                                                | 320W                                                                |
| Line Regulation                               | ± 0.5% (@ 180-528Vac)                                                                      |                                                                     |                                                                     |                                                                     |
| Load Regulation (0-95% Load)                  | ± 2% (@ 180-528Vac)                                                                        | ± 0.5% (@ 180-528Vac)                                               |                                                                     |                                                                     |
| PARD (20MHz)                                  | < 150mVpp                                                                                  |                                                                     | < 250mVpp                                                           |                                                                     |
| Hold-up Time                                  | 16ms typ. @ 230Vac & 277Vac & 480Vac (100% load)                                           |                                                                     |                                                                     |                                                                     |
| INPUT                                         |                                                                                            |                                                                     |                                                                     |                                                                     |
| Input Voltage Range                           | 180-528Vac                                                                                 |                                                                     |                                                                     |                                                                     |
| Input Frequency                               | 47-63Hz                                                                                    |                                                                     |                                                                     |                                                                     |
| Input Current                                 | 1.70A max. @ 230Vac, 1.40A max. @ 277Vac, 1.00A max. @ 480Vac                              |                                                                     |                                                                     |                                                                     |
| Efficiency at 100% Load                       | 88.0% typ. @ 230Vac,<br>88.5% typ. @ 277Vac,<br>89.0% typ. @ 480Vac                        | 91.0% typ. @ 230Vac,<br>92.0% typ. @ 277Vac,<br>92.5% typ. @ 480Vac | 92.0% typ. @ 230Vac,<br>92.5% typ. @ 277Vac,<br>93.0% typ. @ 480Vac | 92.0% typ. @ 230Vac,<br>93.0% typ. @ 277Vac,<br>93.5% typ. @ 480Vac |
| Max Inrush Current (Cold Start)               | 50A typ. @ 480Vac                                                                          |                                                                     |                                                                     |                                                                     |
| Power Factor                                  | 0.98 typ. @ 230Vac & 277Vac, 0.95 typ. @ 480Vac                                            |                                                                     |                                                                     |                                                                     |
| Leakage Current                               | < 0.75mA @ 480Vac                                                                          |                                                                     |                                                                     |                                                                     |
| MECHANICAL                                    |                                                                                            |                                                                     |                                                                     |                                                                     |
| Case Cover / Chassis                          | Aluminium                                                                                  |                                                                     |                                                                     |                                                                     |
| Dimensions (L x W x H)                        | 262 × 90 × 43.8 mm<br>(10.32" × 3.54" × 1.72")                                             | 262 × 90 × 43.8 mm<br>(10.32" × 3.54" × 1.72")                      | 262 × 90 × 43.8 mm<br>(10.32" × 3.54" × 1.72")                      | 262 × 90 × 43.8 mm<br>(10.32" × 3.54" × 1.72")                      |
| Unit Weight                                   | 1.19 kg (2.62 lb)                                                                          | 1.19 kg (2.62 lb)                                                   | 1.19 kg (2.62 lb)                                                   | 1.19 kg (2.62 lb)                                                   |
| Cooling System                                | Convection                                                                                 |                                                                     |                                                                     |                                                                     |
| Input Cable                                   | UL                                                                                         | SJTW 18AWGX3C (Line: Brown, Neutral: Blue, PE: Green/Yellow)        |                                                                     |                                                                     |
| Output Cable                                  | UL                                                                                         | SJTW 14AWGX2C (Positive: Red, Negative: Black)                      |                                                                     |                                                                     |
| Dimming Cable                                 | UL                                                                                         | SJTW 18AWGX2C (Positive: White, Negative: Blue)                     |                                                                     |                                                                     |
| MTBF <sup>2)</sup>                            | > 700,000 hrs                                                                              | > 700,000 hrs                                                       | > 700,000 hrs                                                       | > 700,000 hrs                                                       |
| ENVIRONMENT                                   |                                                                                            |                                                                     |                                                                     |                                                                     |
| Operating Temperature                         | -40°C to +60°C (@ 180Vac); -40°C to +65°C (@ 230Vac); -40°C to +70°C (@ 270Vac and above)  |                                                                     |                                                                     |                                                                     |
| Storage Temperature                           | -40°C to +85°C                                                                             |                                                                     |                                                                     |                                                                     |
| Power De-rating <sup>3)</sup>                 | > 50°C (4% / °C) @ 180Vac; > 55°C (4% / °C) @ 230Vac; > 60°C (4% / °C) @ 277Vac and above) |                                                                     |                                                                     |                                                                     |
| Operating Humidity                            | 5 to 95% RH (Non-Condensing)                                                               |                                                                     |                                                                     |                                                                     |
| Operating Altitude                            | 0 to 3,000m (0 to 9,840 ft)                                                                |                                                                     |                                                                     |                                                                     |
| Degree of Protection                          | IP65 (LNV-□□□WAAA)<br>IP67 (LNV-□□□WBAA, LNV-□□□WDAA)                                      |                                                                     |                                                                     |                                                                     |

Dimensions Reference



#### Notes

- 1) For LVN-□□□WAAA package type only.
- 2) MTBF as per Telcordia SR-332 (I/P: 200Vac, O/P: 100% load).
- 3) Please refer to the technical datasheet for information about the mounting orientations.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Delta LED Power Supplies

## Open Frame Power Supply



AR

### PJL

- Universal AC input voltage range
- Standard industrial footprint of 3" x 5"
- Low inrush current < 20A and up to 90.0% efficiency
- Low earth leakage current < 500μA
- Extreme low temperature operation at -40°C
- Safety approval according to UL 8750 and IEC/UL 60950-1



# PJL Open Frame Power Supply

## 48V Output

# PJL

### HIGHLIGHTS & FEATURES

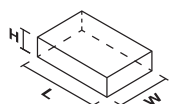
- Universal AC input voltage range
- Standard industrial footprint of 3" x 5"
- Low inrush current < 20A and up to 90.0% efficiency
- Low earth leakage current < 500μA
- Extreme low temperature operation at -40°C
- Safety approval according to UL 8750 and IEC/UL 60950-1



### GENERAL SPECIFICATIONS

|                                       | COMING SOON                                     | COMING SOON                                     |
|---------------------------------------|-------------------------------------------------|-------------------------------------------------|
| OUTPUT                                | PJL-48V200WBAA                                  | PJL-48V400WBAA                                  |
| Output Voltage                        | 48V                                             | 48V                                             |
| Output Voltage Range                  | 48-50Vdc                                        | 48-50Vdc                                        |
| Output Current                        | 0-4.17A                                         | 0-8.33A                                         |
| Output Power                          | 200W                                            | 400W                                            |
| Line Regulation                       | ± 1% typ. (@ 100-277Vac input, 0-100% load)     |                                                 |
| Load Regulation                       | ± 2% typ. (@ 100-277Vac input, 0-100% load)     |                                                 |
| PARD (20MHz) <sup>1)</sup>            | < 480mVpp                                       | < 680mVpp                                       |
| Hold-up Time                          | > 5ms @ 115Vac & 230Vac (100% load)             |                                                 |
| INPUT                                 |                                                 |                                                 |
| Phase Input                           | Single Phase                                    |                                                 |
| Input Voltage Range                   | 85-305Vac                                       |                                                 |
| Input Frequency                       | 47-63Hz                                         |                                                 |
| Input Current                         | < 2.20A @ 115Vac                                | < 4.74A @ 115Vac                                |
| Efficiency at 100% Load <sup>2)</sup> | > 85% @ 115Vac, > 90% @ 230Vac                  |                                                 |
| Max Inrush Current (Cold Start)       | < 20A @ 230Vac                                  |                                                 |
| Power Factor                          | > 0.95 @ 115Vac & 230Vac                        |                                                 |
| Leakage Current                       | < 500μA                                         |                                                 |
| MECHANICAL                            |                                                 |                                                 |
| Case Cover / Chassis                  | -                                               |                                                 |
| Dimensions (L x W x H)                | 127 × 76.2 × 34.6 mm<br>(5.00" × 3.00" × 1.36") | 127 × 76.6 × 39.1 mm<br>(5.00" × 3.02" × 1.54") |
| Unit Weight                           | 0.42 kg (0.93 lb)                               | 0.44 kg (0.97 lb)                               |
| Cooling System                        | Convection: 0-150W<br>Forced Air: 151-200W      | Convection: 0-200W<br>Forced Air: 201-400W      |
| MTBF <sup>3)</sup>                    | > 500,000 hrs                                   | > 500,000 hrs                                   |
| ENVIRONMENT                           |                                                 |                                                 |
| Operating Temperature                 | -40°C to +70°C                                  |                                                 |
| Storage Temperature                   | -40°C to +85°C                                  |                                                 |
| Power De-rating                       | > 50°C (2.5% / °C)                              |                                                 |
| Operating Humidity                    | 5 to 95% RH (Non-Condensing)                    |                                                 |
| Operating Altitude                    | 0 to 5,000m (0 to 16,400 ft)                    |                                                 |

#### Dimensions Reference



#### Notes

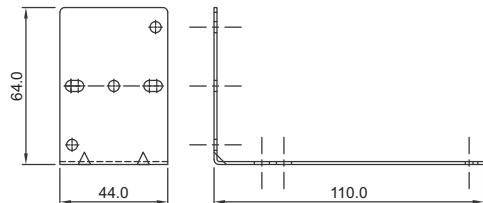
- 1) PARD is measured with an AC coupling mode, 5cm wires, and in parallel with 0.1μF ceramic capacitor & 47μF electrolytic capacitor.
- 2) At 25°C ambient temperature by vertical mounting orientation.
- 3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115Vac, O/P: 100% load).
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# Accessories

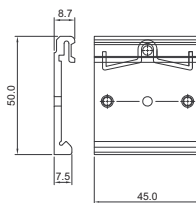
## L-01, L-02, L-03A, P-03

### DIN Rail Accessories

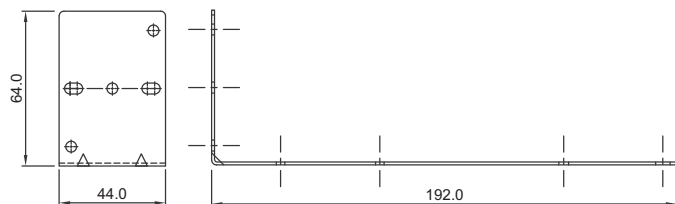
#### L-01



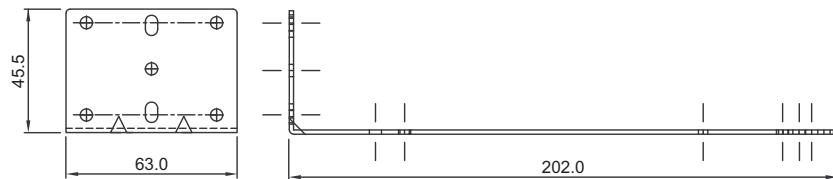
#### P-03



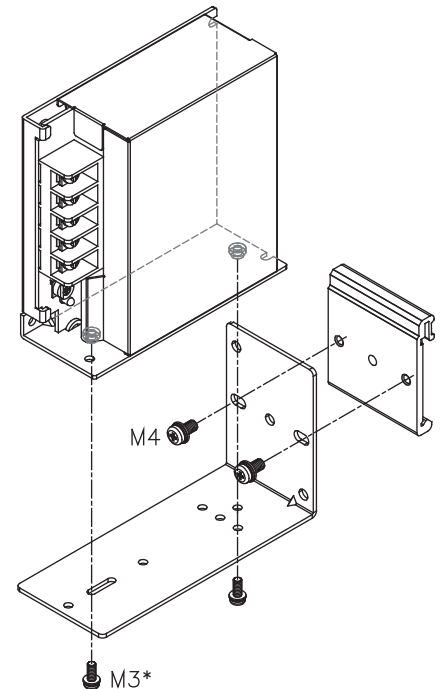
#### L-02



#### L-03A

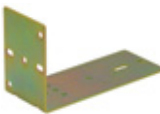
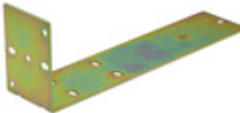
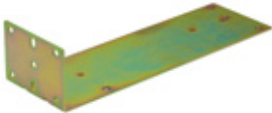


### Accessories Assembly



\*Except PMC-24V300W1BA. Please use M4 screws only.

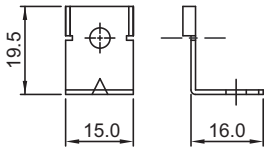
### Model Information

| Item                                                                                | Model Number | Compatible Models                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | L-01         | PMC-05V015W1AA, PMC-05V035W1AA, PMC-05V050W1AA<br>PMC-12V035W1AA, PMC-12V050W1AA, PMC-12V060W1NA<br>PMC-24V035W1A□, PMC-24V050W1A□, PMC-24V075W1A□<br>PMH-12V100WCL□<br>PMH-24V50WCA□, PMH-24V100WCL□, PMH-24V100WCM□<br>PMT-5V35W1A□, PML-5V35W1A□, PMT-5V50W1A□, PML-5V50W1A□<br>PMT-15V50W1A□, PML-15V50W1A□<br>PMT-12V35W1A□, PML-12V35W1A□, PMT-12V50W1A□, PML-12V50W1A□<br>PMT-24V35W1A□, PML-24V35W1A□, PMT-24V50W1A□, PML-24V50W1A□                                                                          |
|  | L-02         | PMC-12V100W1A□, PMC-12V150W1B□<br>PMC-24V100W1A□, PMC-24V150W1A□, PMC-24V150W1B□,<br>PMC-24V150W2AA, PMC-DSPV100W1A<br>PMC-48V150W1BA<br>PMH-24V100WCA□, PMH-24V100WCC□, PMH-24V100WCN□, PMH-24V150WCB□,<br>PMH-24V150WCD□, PMH-24V150WCL□<br>PMU-13V155W□□A, PMU-27V155W□□A<br>PMT-12V100W1A□, PML-12V100W1A□, PMT-12V150W1A□, PML-12V150W1A□<br>PMT-24V100W1A□, PML-24V100W1A□, PMT-24V150W1A□, PML-24V150W1A□<br>PMT-48V150W1A□, PML-48V150W1A□<br>PMT-D1V100W1A□, PML-D1V100W1A□, PMT-D2V100W1A□, PML-D2V100W1A□ |
|  | L-03A        | PMC-24V300W1BA<br>PMF-24V200WC□□, PMF-24V240WC□□                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|  | P-03         | All models<br>*P-03 must be used with L-01, L-02 or L-03A                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

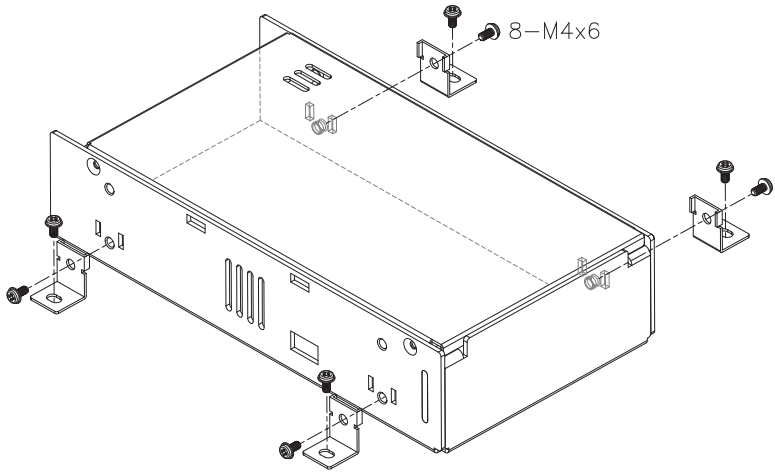
# LM-01

## Panel Mount Accessories

### LM-01



### Accessories Assembly



## Model Information

| Item                                                                                | Model Number | Compatible Models                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | LM-01        | PMT-4V350W1A□<br>PMT-5V350W1A□<br>PMT-12V350W1A□<br>PMT-24V200W1A□, PML-24V200W1A□, PMT-24V350W1A□<br>PMT-36V350W1A□<br>PMT-48V350W1A□<br>PMF-4V320WC□□<br>PMF-5V320WC□□<br>PMF-24V200WC□□, PMF-24V240WC□□, PMF-24V320WC□□<br>PMR-4V320WC□A, PMR-4V320WD□A<br>PMR-5V320WC□A, PMR-5V320WD□A |



# Standards & Approvals

## Delta Industrial Power Supplies

|                       | CE | CB Scheme to IEC 60950-1 | SIQ or TUV to EN 60950-1 | UL 60950-1 | UL 508 | UL 1310 | NEC Class 2 | CSA C22.2 No. 107.1-01 | CSA C22.2 No. 60950-1 | ATEX EN 60079-15 | CSA C22.2 No. 213 and ANSI/ISA-12.12.09 | EAC (Eurasian Customs Union) | CCC (China) | RoHS Directive 2011/65/EU | SEMI F47 | EN 61204-3 | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (Immunity) | EN 61000-6-2 (Immunity) | EN 55024 (Immunity) | EN 55011 Class B (Emissions) | EN 55032 Class B (Emissions) |
|-----------------------|----|--------------------------|--------------------------|------------|--------|---------|-------------|------------------------|-----------------------|------------------|-----------------------------------------|------------------------------|-------------|---------------------------|----------|------------|--------------------|------------------------|-------------------------|-------------------------|---------------------|------------------------------|------------------------------|
| DIN Rail Power Supply |    |                          |                          |            |        |         |             |                        |                       |                  |                                         |                              |             |                           |          |            |                    |                        |                         |                         |                     |                              |                              |
| DRP012V015W1AY        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          |            | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP012V015W1AZ        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          |            | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP012V030W1AY        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          |            | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP012V030W1AZ        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          |            | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP012V060W1AA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          |            | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP012V100W1AA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          |            | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP-24V48W1AZ         | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          |            | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V060W1AZ        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      | ●                     |                  |                                         | ●                            |             | ●                         |          |            | ●                  | ●                      | ●                       |                         | ●                   | ●                            | ●                            |
| DRP024V060W1AA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      | ●                     | ●                | ●                                       | ●                            |             | ●                         | ●        |            | ●                  | ●                      |                         |                         | ●                   | ●                            | ●                            |
| DRP024V120W1AA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      | ●                     | ●                | ●                                       | ●                            |             | ●                         | ●        |            | ●                  | ●                      | ●                       |                         | ●                   | ●                            | ●                            |
| DRP024V240W1AA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      | ●                     | ●                | ●                                       | ●                            |             | ●                         | ●        |            | ●                  | ●                      |                         |                         | ●                   | ●                            | ●                            |
| DRP024V480W1AA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      | ●                     | ●                | ●                                       | ●                            |             | ●                         | ●        |            | ●                  | ●                      | ●                       |                         | ●                   | ●                            | ●                            |
| DRP024V060W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP024V060W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP024V120W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            | ●           | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP024V120W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            | ●           | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP024V240W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP024V240W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP024V480W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V480W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP024V060W1NY        | ●  | ●                        | ●                        | ●          | ●      | ●       | ●           | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V060W1NZ        | ●  | ●                        | ●                        | ●          | ●      | ●       | ●           | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP-24V100W1NN        | ●  | ●                        | ●                        | ●          | ●      | ●       | ●           | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP-24V120W2BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP-24V240W2BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V060W3BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V060W3BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V120W3BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V120W3BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V240W3BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V240W3BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V480W3BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V480W3BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP024V960W3BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP048V060W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP048V060W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP048V120W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            | ●           | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP048V120W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            | ●           | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP048V240W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP048V240W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       | ●                   | ●                            | ●                            |
| DRP048V480W1BA        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       | ●                | ●                                       | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |
| DRP048V480W1BN        | ●  | ●                        | ●                        | ●          | ●      |         |             | ●                      |                       |                  |                                         | ●                            |             | ●                         |          | ●          | ●                  | ●                      |                         | ●                       | ●                   | ●                            | ●                            |



|                       | CE | CB Scheme to IEC 60950-1 | CB Scheme to IEC 61558-1, IEC 61588-2-16, IEC 61010-1 | CB Scheme to IEC 60335-1 | SIQ or TUV to EN 60950-1 | SIQ to EN 61558-1, EN 61558-2-16, EN 61010-1 | TUV to EN 60335-1 | UL 60950-1 | UL 508 | NEC Class 2 | CSA C22.2 No. 107.1-01 | EAC (Eurasian Customs Union) | CCC (China) | DNV GL (Maritime) | ABS | RoHS Directive 2011/65/EU | SEMI F47 | EN 61204-3 | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (Immunity) | EN 61000-6-2 (Immunity) | EN 55014-2 (Immunity) | EN 55024 (Immunity) | EN 55011 Class B (Emissions) | EN 55014-1 (Emissions) | EN 55032 Class A (Emissions) | EN 55032 Class B (Emissions) | EN 61000-6-3 (Emissions) | EN 61000-6-4 (Emissions) |   |  |
|-----------------------|----|--------------------------|-------------------------------------------------------|--------------------------|--------------------------|----------------------------------------------|-------------------|------------|--------|-------------|------------------------|------------------------------|-------------|-------------------|-----|---------------------------|----------|------------|--------------------|------------------------|-------------------------|-------------------------|-----------------------|---------------------|------------------------------|------------------------|------------------------------|------------------------------|--------------------------|--------------------------|---|--|
| DIN Rail Power Supply |    |                          |                                                       |                          |                          |                                              |                   |            |        |             |                        |                              |             |                   |     |                           |          |            |                    |                        |                         |                         |                       |                     |                              |                        |                              |                              |                          |                          |   |  |
| DRP-24V120W1C□N       | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        | ●                            |             |                   |     | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        |                          |   |  |
| DRP-24V240W1C□N       | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        | ●                            |             |                   |     | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        |                          |   |  |
| DRP-24V480W1C□N       | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        | ●                            |             |                   |     | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        |                          |   |  |
| DRM-24V80W1PN         | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             |                        | ●                            |             | ●                 | ●   | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRM-24V120W1PN        | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             | ●                      | ●                            |             | ●                 | ●   | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRM-24V240W1PN        | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             | ●                      | ●                            |             | ●                 | ●   | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRM-24V480W1PN        | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             | ●                      | ●                            |             | ●                 | ●   | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRM-24V960W1PN        | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             | ●                      | ●                            |             | ●                 | ●   | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRV-24V120W1PN        | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             | ●                      |                              |             |                   |     | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRV-24V240W1PN        | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             | ●                      |                              |             |                   |     | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRV-24V480W1PN        | ●  | ●                        | ●                                                     |                          | ●                        | ●                                            |                   | ●          | ●      |             | ●                      |                              |             |                   |     | ●                         | △        | ●          | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        |   |  |
| DRL-24V120W1A□        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        |                              | ●           |                   |     | ●                         | △        | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRL-24V240W1A□        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        |                              | ●           |                   |     | ●                         | △        | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRL-24V480W1A□        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        |                              | ●           |                   |     | ●                         | △        | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRL-48V120W1A□        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        |                              | ●           |                   |     | ●                         | △        | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRC-5V10W1A□          | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-12V10W1A□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-12V30W1A□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-12V60W1A□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-12V100W1AZ        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-24V10W1A□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-24V10W1HZ         | ●  | ●                        |                                                       | ●                        | ●                        |                                              | ●                 | ●          |        | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         | ●                       | ●                     |                     |                              | ●                      |                              | ●                            |                          |                          |   |  |
| DRC-24V30W1A□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-24V60W1A□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRC-24V100W1A□        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRS-5V30W1NZ          | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRS-5V50W1A□          | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRS-5V50W1N□          | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRS-12V50W1N□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRS-24V30W1AZ         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        |                              | ●           |                   |     | ●                         |          |            | ●                  | ●                      |                         |                         | ●                     |                     |                              |                        |                              | ●                            |                          |                          |   |  |
| DRS-24V30W1NZ         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRS-24V50W1N□         | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRS-24V100W1A□        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      |             |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |
| DRS-24V100W1N□        | ●  | ●                        |                                                       |                          | ●                        |                                              |                   | ●          | ●      | ●           |                        | ●                            |             |                   |     | ●                         |          | ●          | ●                  | ●                      | ●                       | ●                       |                       | ●                   | ●                            |                        |                              |                              | ●                        | ●                        | ● |  |

△ Compliant

# Standards & Approvals

## Delta Industrial Power Supplies



|                          | CE | CB Scheme to IEC 60950-1 | CB Scheme to IEC 62368-1 | CB Scheme to IEC 60335-1, IEC 61558-1, IEC 61558-2-16 | TUV to EN 60950-1 | TUV to EN 62368-1 | TUV to EN 60335-1, EN 61558-1, EN 61558-2-16 | UL 60950-1 | UL 62368-1 | CCC (China) | RoHS Directive 2011/65/EU | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (Immunity) | EN 61000-6-2 (Immunity) | EN 55014-2 (Immunity) | EN 55024 (Immunity) | EN 55011 Class B (Emissions) | EN 55032 Class A (Emissions) | EN 55032 Class B (Emissions) | EN 55014-1 (Emissions) | EN 61000-6-3 (Emissions) |
|--------------------------|----|--------------------------|--------------------------|-------------------------------------------------------|-------------------|-------------------|----------------------------------------------|------------|------------|-------------|---------------------------|--------------------|------------------------|-------------------------|-------------------------|-----------------------|---------------------|------------------------------|------------------------------|------------------------------|------------------------|--------------------------|
| Panel Mount Power Supply |    |                          |                          |                                                       |                   |                   |                                              |            |            |             |                           |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |
| PMT-4V350W1A□            |    | ●                        |                          |                                                       |                   |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |
| PML-5V35W1A□             | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-5V35W1A□             | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-5V50W1A□             | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-5V50W1A□             | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-5V350W1A□            |    | ●                        |                          |                                                       |                   |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |
| PMB-12V35W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-12V35W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-12V35W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMB-12V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-12V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-12V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-12V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-12V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-12V150W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-12V150W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-12V350W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         |                    |                        |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-15V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-15V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMB-24V35W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-24V35W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-24V35W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMB-24V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-24V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-24V50W1A□            | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-24V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-24V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-24V150W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-24V150W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-24V200W1A□           |    | ●                        |                          |                                                       |                   |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |
| PMT-24V200W1A□           |    | ●                        |                          |                                                       |                   |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |
| PMT-24V350W1AG           |    | ●                        |                          |                                                       |                   |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |
| PMT-24V350W1AM           |    | ●                        |                          |                                                       |                   |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |
| PMT-24V350W1AK           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       | ●                   | ●                            |                              | ●                            |                        |                          |
| PMT-24V350W1AR           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       | ●                   | ●                            |                              | ●                            |                        |                          |
| PMT-36V350W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            |             | ●                         |                    |                        |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-48V150W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-48V150W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-48V350W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         |                    |                        |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-D1V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-D1V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PML-D2V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-D2V100W1A□           | ●  | ●                        |                          |                                                       | ●                 |                   |                                              | ●          |            | ●           | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |
| PMT-12V50W2BA            | ●  | ●                        | ●                        | ●                                                     |                   | ●                 | ●                                            |            | ●          | ●           | ●                         | ●                  |                        |                         | ●                       | ●                     | ●                   |                              | ●                            | ●                            | ●                      |                          |
| PMT-12V100W2BA           | ●  | ●                        | ●                        | ●                                                     |                   | ●                 | ●                                            |            | ●          | ●           | ●                         | ●                  |                        |                         | ●                       | ●                     | ●                   |                              | ●                            | ●                            | ●                      |                          |
| PMT-12V150W2BA           | ●  | ●                        | ●                        | ●                                                     |                   | ●                 | ●                                            |            | ●          | ●           | ●                         | ●                  |                        |                         | ●                       | ●                     | ●                   |                              | ●                            | ●                            | ●                      |                          |
| PMT-24V50W2BA            | ●  | ●                        | ●                        | ●                                                     |                   | ●                 | ●                                            |            | ●          | ●           | ●                         | ●                  |                        |                         | ●                       | ●                     | ●                   |                              | ●                            | ●                            | ●                      |                          |
| PMT-24V100W2BA           | ●  | ●                        | ●                        | ●                                                     |                   | ●                 | ●                                            |            | ●          | ●           | ●                         | ●                  |                        |                         | ●                       | ●                     | ●                   |                              | ●                            | ●                            | ●                      |                          |
| PMT-24V150W2BA           | ●  | ●                        | ●                        | ●                                                     |                   | ●                 | ●                                            |            | ●          | ●           | ●                         | ●                  |                        |                         | ●                       | ●                     | ●                   |                              | ●                            | ●                            | ●                      |                          |



|                          | CE | CB Scheme to IEC 60950-1 | CB Scheme to IEC 62368-1 | CB Scheme to IEC 60335-1, IEC 61558-1, IEC 61558-2-16 | SIQ or TUV or NEMKO to EN 60950-1 | SIQ to EN 62368-1 | SIQ to EN 60335-1, EN 61558-1, EN 61558-2-16 | UL 60950-1 | UL 62368-1 | NEC Class 2 | EAC (Eurasian Customs Union) | CCC (China) | RoHS Directive 2011/65/EU | EN 61204-3 | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (Immunity) | EN 61000-6-2 (Immunity) | EN 55014-2 (Immunity) | EN 55024 (Immunity) | EN 55011 Class B (Emissions) | EN 55032 Class B (Emissions) | EN 55014-1 (Emissions) | EN 61000-6-3 (Emissions) |
|--------------------------|----|--------------------------|--------------------------|-------------------------------------------------------|-----------------------------------|-------------------|----------------------------------------------|------------|------------|-------------|------------------------------|-------------|---------------------------|------------|--------------------|------------------------|-------------------------|-------------------------|-----------------------|---------------------|------------------------------|------------------------------|------------------------|--------------------------|
| Panel Mount Power Supply |    |                          |                          |                                                       |                                   |                   |                                              |            |            |             |                              |             |                           |            |                    |                        |                         |                         |                       |                     |                              |                              |                        |                          |
| PMC-05V015W1AA           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-05V035W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-05V050W1AA           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-12V035W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-12V050W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-12V060W1NA           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            | ●           | ●                            |             | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-12V100W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-12V150W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-12V600W1BA           | ●  | ●                        | ●                        |                                                       | ●                                 | ●                 |                                              | ●          | ●          |             | ●                            |             | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   | ●                            | ●                            |                        |                          |
| PMC-24V035W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V050W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V075W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V100W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V150W1A□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V150W2AA           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V150W1B□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V300W1BA           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-24V600W1BA           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         | ●                       |                       | ●                   | ●                            | ●                            |                        |                          |
| PMC-DSPV100W1A           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         | ●                       |                       | ●                   |                              | ●                            |                        |                          |
| PMC-48V150W1BA           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             | ●                            | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMC-48V600W1BA           | ●  | ●                        | ●                        |                                                       | ●                                 | ●                 |                                              | ●          | ●          |             | ●                            |             | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   | ●                            | ●                            |                        |                          |
| PMH-24V50WCA□            | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V100WCA□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V100WCC□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V100WCN□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            | ●           | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V150WCB□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V150WCD□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V200WCB□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-12V100WCL□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V100WCL□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V100WCM□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            | ●           | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMH-24V150WCL□           | ●  | ●                        |                          | ●                                                     | ●                                 |                   | ●                                            | ●          |            |             | ●                            |             | ●                         |            | ●                  | ●                      | ●                       |                         | ●                     | ●                   | ●                            | ●                            | ●                      | ●                        |
| PMF-4V320WC□□            | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMF-5V320WC□□            | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMF-24V200WCA□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMF-24V200WCG□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMF-24V240WCA□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMF-24V240WCG□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMF-24V320WCA□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMF-24V320WCG□           | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMR-4V320WC□A            | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMR-4V320WD□A            | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMR-5V320WC□A            | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |
| PMR-5V320WD□A            | ●  | ●                        |                          |                                                       | ●                                 |                   |                                              | ●          |            |             |                              | ●           | ●                         |            | ●                  | ●                      |                         |                         |                       | ●                   |                              | ●                            |                        |                          |

# Standards & Approvals

## Delta Industrial Power Supplies



|                          | CE | CB Scheme to IEC 60950-1 | CB Scheme to IEC 62368-1 | SIQ or TUV to EN 60950-1 | TUV to EN 62368-1 | UL 60950-1 | UL 62368-1 | BSMI | EAC (Eurasian Customs Union) | CCC (China) | CQC (China) | KC (Korea) | RoHS Directive 2011/65/EU | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (Immunity) | EN 61000-6-2 (Immunity) | EN 55014-2 (Immunity) | EN 55024 (Immunity) | EN 55011 Class B (Emissions) | EN 55032 Class A (Emissions) | EN 55032 Class B (Emissions) | EN 55014-1 (Emissions) | EN 61000-6-3 (Emissions) | FCC Part 15 Class B (Emissions) |
|--------------------------|----|--------------------------|--------------------------|--------------------------|-------------------|------------|------------|------|------------------------------|-------------|-------------|------------|---------------------------|--------------------|------------------------|-------------------------|-------------------------|-----------------------|---------------------|------------------------------|------------------------------|------------------------------|------------------------|--------------------------|---------------------------------|
| Panel Mount Power Supply |    |                          |                          |                          |                   |            |            |      |                              |             |             |            |                           |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |                                 |
| PMU-13V155W□□A           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              | ●           |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PMU-27V155W□□A           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              | ●           |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| Open Frame Power Supply  |    |                          |                          |                          |                   |            |            |      |                              |             |             |            |                           |                    |                        |                         |                         |                       |                     |                              |                              |                              |                        |                          |                                 |
| PJT-12V40WBA□            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-12V65WBA□            | ●  | ●                        | ●                        | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-12V100WBA□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-12V100WBB□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-15V40WBA□            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-15V65WBA□            | ●  | ●                        | ●                        | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-15V100WBA□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-15V100WBB□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-18V40WBA□            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-18V65WBA□            | ●  | ●                        | ●                        | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-18V100WBA□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-18V100WBB□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-24V40WBA□            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-24V65WBA□            | ●  | ●                        | ●                        | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-24V100WBA□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-24V100WBB□           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJT-27V150WBNA           | ●  | ●                        |                          | ●                        |                   | ●          |            |      | ●                            |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-12V15W□NA             | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-12V30W□NA             | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-12V50W□NA             | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-12V100W□□A            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-12V150W□□A            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-24V30W□NA             | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-24V50W□NA             | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-24V100W□□A            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-24V150W□□A            | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-5V15W□NA              | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJ-48V50W□NA             | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJB-24V100W□□A           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJB-24V150W□□A           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |
| PJB-24V240W□□A           | ●  | ●                        |                          | ●                        |                   | ●          |            |      |                              |             |             |            | ●                         | ●                  | ●                      |                         |                         |                       | ●                   |                              |                              | ●                            |                        |                          |                                 |



|                         | CE | CB Scheme to IEC 60950-1 | CB Scheme to IEC 62368-1 | CB Scheme to IEC 60335-1, IEC 61558-1, IEC 61558-2-16 | SIQ or TUV to EN 60950-1 | SIQ to EN 62368-1 | SIQ to EN 60335-1, EN 61558-1, EN 61558-2-16 | UL 60950-1 | UL 62368-1 | UL 508 | CSA C22.2 No. 107.1-01 | ATEX EN 60079-15 | CSA C22.2 No. 213 and ANSI/ISA-12.12.09 | BSMI | EAC (Eurasian Customs Union) | CCC (China) | CQC (China) | KC (Korea) | RoHS Directive 2011/65/EU | EN 61204-3 | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (Immunity) | EN 61000-6-2 (Immunity) | EN 55014-2 (Immunity) | EN 55024 (Immunity) | EN 55011 Class B (Emissions) | EN 55032 Class B (Emissions) | FCC Part 15 Class B (Emissions) |  |  |
|-------------------------|----|--------------------------|--------------------------|-------------------------------------------------------|--------------------------|-------------------|----------------------------------------------|------------|------------|--------|------------------------|------------------|-----------------------------------------|------|------------------------------|-------------|-------------|------------|---------------------------|------------|--------------------|------------------------|-------------------------|-------------------------|-----------------------|---------------------|------------------------------|------------------------------|---------------------------------|--|--|
| Open Frame Power Supply |    |                          |                          |                                                       |                          |                   |                                              |            |            |        |                        |                  |                                         |      |                              |             |             |            |                           |            |                    |                        |                         |                         |                       |                     |                              |                              |                                 |  |  |
| PJH-24V300WBB□          | ○  | ○                        | ○                        | ○                                                     | ○                        | ○                 | ○                                            | ○          | ○          |        |                        |                  |                                         |      |                              |             |             |            | ○                         | ○          | ○                  | ○                      |                         |                         |                       | ○                   | ○                            |                              | ○                               |  |  |
| PJH-24V300WBC□          | ○  | ○                        | ○                        | ○                                                     | ○                        | ○                 | ○                                            | ○          | ○          |        |                        |                  |                                         |      |                              |             |             |            | ○                         | ○          | ○                  | ○                      |                         |                         |                       | ○                   | ○                            |                              | ○                               |  |  |
| PJH-36V300WBB□          | ○  | ○                        | ○                        | ○                                                     | ○                        | ○                 | ○                                            | ○          | ○          |        |                        |                  |                                         |      |                              |             |             |            | ○                         | ○          | ○                  | ○                      |                         |                         |                       | ○                   | ○                            |                              | ○                               |  |  |
| PJH-36V300WBC□          | ○  | ○                        | ○                        | ○                                                     | ○                        | ○                 | ○                                            | ○          | ○          |        |                        |                  |                                         |      |                              |             |             |            | ○                         | ○          | ○                  | ○                      |                         |                         |                       | ○                   | ○                            |                              | ○                               |  |  |
| PJU-13V60W□A□           | ●  | ●                        | ●                        |                                                       | ●                        | ●                 |                                              | ●          | ●          |        |                        |                  |                                         |      |                              | ●           |             |            | ●                         |            | ●                  | ●                      |                         |                         |                       |                     | ●                            |                              | ●                               |  |  |
| PJU-13V60W□B□           | ●  | ●                        | ●                        |                                                       | ●                        | ●                 |                                              | ●          | ●          |        |                        |                  |                                         |      |                              | ●           |             |            | ●                         |            | ●                  | ●                      |                         |                         |                       |                     | ●                            |                              | ●                               |  |  |
| PJU-27V60W□A□           | ●  | ●                        | ●                        |                                                       | ●                        | ●                 |                                              | ●          | ●          |        |                        |                  |                                         |      |                              | ●           |             |            | ●                         |            | ●                  | ●                      |                         |                         |                       |                     | ●                            |                              | ●                               |  |  |
| PJU-27V60W□B□           | ●  | ●                        | ●                        |                                                       | ●                        | ●                 |                                              | ●          | ●          |        |                        |                  |                                         |      |                              | ●           |             |            | ●                         |            | ●                  | ●                      |                         |                         |                       |                     | ●                            |                              | ●                               |  |  |
| DIN Rail Modules        |    |                          |                          |                                                       |                          |                   |                                              |            |            |        |                        |                  |                                         |      |                              |             |             |            |                           |            |                    |                        |                         |                         |                       |                     |                              |                              |                                 |  |  |
| DRR-20A                 | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      |                        | ●                | ●                                       |      | ●                            |             |             |            | ●                         |            |                    |                        | ●                       | ●                       |                       |                     |                              | ●                            | ●                               |  |  |
| DRR-20N                 | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      |                        |                  |                                         |      | ●                            |             |             |            | ●                         |            |                    |                        | ●                       | ●                       |                       |                     |                              | ●                            | ●                               |  |  |
| DRR-40A                 | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      |                        | ●                | ●                                       |      | ●                            |             |             |            | ●                         |            |                    |                        | ●                       | ●                       |                       |                     |                              | ●                            | ●                               |  |  |
| DRR-40N                 | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      |                        |                  |                                         |      | ●                            |             |             |            | ●                         |            |                    |                        | ●                       | ●                       |                       |                     |                              | ●                            | ●                               |  |  |
| DRB-24V020ABA           | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      | ●                      | ●                | ●                                       |      | ●                            |             |             |            | ●                         | ●          |                    |                        |                         | ●                       |                       |                     | ●                            | ●                            | ●                               |  |  |
| DRB-24V020ABN           | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      | ●                      |                  | ●                                       |      | ●                            |             |             |            | ●                         | ●          | ●                  | ●                      |                         | ●                       |                       |                     | ●                            | ●                            | ●                               |  |  |
| DRB-24V040ABN           | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      | ●                      |                  |                                         |      | ●                            |             |             |            | ●                         | ●          | ●                  | ●                      |                         | ●                       |                       |                     | ●                            | ●                            | ●                               |  |  |
| DRU-24V40ABN            | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      | ●                      |                  |                                         |      | ●                            |             |             |            | ●                         | ●          | ●                  | ●                      |                         | ●                       |                       |                     | ●                            | ●                            | ●                               |  |  |
| DRU-24V10ACZ            | ●  | ●                        |                          |                                                       | ●                        |                   |                                              | ●          |            | ●      |                        |                  |                                         |      | ●                            |             |             |            | ●                         | ●          |                    |                        |                         | ●                       |                       |                     | ●                            | ●                            | ●                               |  |  |

○ Pending



# Standards & Approvals

## Delta Medical Power Supplies

|                         | CE | CB Scheme to IEC 60601-1 | CB Scheme to IEC 60950-1 | UL 60601-1 | UL 60950-1 | CCC (China) | CCC (China) | TUV to EN 60601-1 | TUV to EN 60950-1 | EN 55011 Class B (Emissions) | EN 55032 Class B (Emissions) |
|-------------------------|----|--------------------------|--------------------------|------------|------------|-------------|-------------|-------------------|-------------------|------------------------------|------------------------------|
| Enclosed Power Supply   |    |                          |                          |            |            |             |             |                   |                   |                              |                              |
| MDS-200ADB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-250ADB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-300ADB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-400ADB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-300ADB18            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-200ADB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-250ADB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-300ADB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-400ADB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-300ADB48            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MEB-1K2A24T             | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MEB-1K2A48T             | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| Open Frame Power Supply |    |                          |                          |            |            |             |             |                   |                   |                              |                              |
| MDS-040APS12 B          | •  | •                        | •                        | •          | •          | •           |             |                   |                   | •                            | •                            |
| MDS-065APS12 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100APS12 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100BPS12 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-200APB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-250APB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-300APB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-400APB12            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-040APS15 B          | •  | •                        | •                        | •          | •          | •           |             |                   |                   | •                            | •                            |
| MDS-065APS15 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100APS15 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100BPS15 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-040APS18 B          | •  | •                        | •                        | •          | •          | •           |             |                   |                   | •                            | •                            |
| MDS-065APS18 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100APS18 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100BPS18 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-300APB18            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-400AUS19 B          | •  | •                        | •                        | •          | •          | •           |             |                   |                   | •                            | •                            |
| MDS-400AUS24 B          | •  | •                        | •                        | •          | •          | •           |             |                   |                   | •                            | •                            |
| MDS-040APS24 B          | •  | •                        | •                        | •          | •          | •           |             |                   |                   | •                            | •                            |
| MDS-065APS24 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100APS24 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-100BPS24 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MDS-200APB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-250APB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-300APB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-400APB24            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-300APB48            | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MDS-100AP401 B          | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MEP-25A15J              | •  | •                        | •                        | •          | •          |             | •           |                   |                   | •                            | •                            |
| MEU-600C24T             | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |
| MEU-600C48T             | •  | •                        | •                        | •          | •          | •           |             | •                 | •                 | •                            | •                            |



|                           | CE | CB Scheme to IEC 60601-1 | CB Scheme to IEC 60950-1 | UL 60601-1 | UL 60950-1 | CSA 60601-1 | CCC (China) | CQC (China) | TUV to EN 60601-1 | TUV to EN 60950-1 | EN 55011 Class B (Emissions) | EN 55032 Class B (Emissions) |
|---------------------------|----|--------------------------|--------------------------|------------|------------|-------------|-------------|-------------|-------------------|-------------------|------------------------------|------------------------------|
| ATX Power Supply          |    |                          |                          |            |            |             |             |             |                   |                   |                              |                              |
| MDS-350AD701              | ●  | ●                        | ●                        | ●          | ●          |             | ●           |             |                   |                   |                              |                              |
| Configurable Power Supply |    |                          |                          |            |            |             |             |             |                   |                   |                              |                              |
| MEG-1K2A4                 | ○  | ○                        | ○                        |            | ○          | ○           |             |             |                   |                   | ○                            | ○                            |
| MEG-2K1A6                 | ●  | ●                        | ●                        |            | ●          | ●           |             |             |                   |                   | ●                            | ●                            |
| Adapter                   |    |                          |                          |            |            |             |             |             |                   |                   |                              |                              |
| MDS-005AAS05 A            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-005AAS05 B            | ●  | ●                        |                          | ●          |            |             |             |             |                   |                   | ●                            | ●                            |
| MDS-005AAS05 C            | ●  | ●                        |                          |            |            |             |             |             |                   |                   | ●                            | ●                            |
| MDS-030AAC05              | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-005AAS06 A            | ●  | ●                        |                          |            |            |             | ●           |             |                   |                   |                              |                              |
| MDS-005AAS06 B            | ●  | ●                        |                          | ●          |            |             |             |             |                   |                   | ●                            | ●                            |
| MDS-005AAS06 C            | ●  | ●                        |                          |            |            |             |             |             |                   |                   | ●                            | ●                            |
| MDS-030AAC07              | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-030AAC12              | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-060AAS12 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-060BAS12 A            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-080AAS12 A            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-150AAS12 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-030AAC15              | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-060AAS15 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-090AAS15 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-060AAS19 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-060BAS19 A            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-090AAS19 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-150AAS19 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-150CAB19              | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-030AAC24              | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-060AAS24 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-060BAS24 A            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-090AAS24 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-090BAS24 A            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MDS-150AAS24 B            | ●  | ●                        |                          | ●          |            |             | ●           |             |                   |                   | ●                            | ●                            |
| MEA-120A15B               | ●  | ●                        | ●                        | ●          | ●          |             | ●           |             |                   |                   | ●                            | ●                            |
| MEA-250A24C               | ●  | ●                        | ●                        | ●          |            |             | ●           |             |                   |                   |                              |                              |
| MEF-010A05B               | ●  | ●                        | ●                        | ●          | ●          |             |             |             |                   |                   | ●                            | ●                            |

○ Pending

# Standards & Approvals

## Delta LED Power Supplies

| LED Driver     | CE | CB Scheme to IEC 60950-1 | CB Scheme to IEC 61347-1, IEC 61347-2-13 | SIQ or TUV to EN 60950-1 | ENEC to EN 61347-1, EN 61347-2-13, EN 62384 | Compliance to UL 60950-1 | UL 8750 | UL 60950-1 and CSA C22.2 No. 60950-1 | CCC (China) to GB19519.1, GB19510.14 | KC (Korea) to KC61347-1, KC61347-2-13, KC62384 | PSE (Japan) to J61347-1, J61347-2-13 | RoHS Directive 2011/65/EU | EN 61000-3-2 (PFC), Class C | EN 61000-3-3 (Flicker) | EN 61547 (Immunity) | EN 55024 (Immunity) | EN 55015 (Emissions) | EN 55032 Class B (Emissions) | FCC Title 47 Class B (Emissions) |
|----------------|----|--------------------------|------------------------------------------|--------------------------|---------------------------------------------|--------------------------|---------|--------------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------|---------------------------|-----------------------------|------------------------|---------------------|---------------------|----------------------|------------------------------|----------------------------------|
| LNE-12V100WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V100WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V120WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V120WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V150WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V150WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V185WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V185WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V320WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V320WBAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V320WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-12V100WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V100WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V120WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V120WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V150WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V150WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V185WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V185WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V320WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    |                                                |                                      | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V320WBCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    |                                                |                                      | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-12V320WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    |                                                |                                      | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V100WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V100WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V120WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V120WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V150WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V150WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V185WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V185WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V320WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V320WBAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V320WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-24V100WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V100WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V120WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V120WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V150WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V150WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V185WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V185WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V320WACA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    |                                                |                                      | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V320WBCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    |                                                |                                      | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-24V320WDCA | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    |                                                |                                      | ●                         | ●                           | ●                      | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V100WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-36V100WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-36V120WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-36V120WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-36V150WAAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |
| LNE-36V150WDAA |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      | △                   | △                   | △                    | △                            | △                                |

△ Compliant

|                         | CE | CB Scheme to IEC 60950-1 | CB Scheme to IEC 61347-1, IEC 61347-2-13 | SIQ or TUV to EN 60950-1 | ENEC to EN 61347-1, EN 61347-2-13, EN 62384 | Compliance to UL 60950-1 | UL 8750 | UL 60950-1 and CSA C22.2 No. 60950-1 | CCC (China) to GB19519.1, GB19510.14 | KC (Korea) to KC61347-1, KC61347-2-13, KC62384 | PSE (Japan) to J61347-1, J61347-2-13 | RoHS Directive 2011/65/EU | EN 61000-3-2 (PFC), Class C | EN 61000-3-3 (Flicker) | EN 61000-6-2 (Immunity) | EN 61547 (Immunity) | EN 55024 (Immunity) | EN 55015 (Emissions) | EN 55032 Class B (Emissions) | FCC Title 47 Class B (Emissions) |
|-------------------------|----|--------------------------|------------------------------------------|--------------------------|---------------------------------------------|--------------------------|---------|--------------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------|---------------------------|-----------------------------|------------------------|-------------------------|---------------------|---------------------|----------------------|------------------------------|----------------------------------|
| LED Driver              |    |                          |                                          |                          |                                             |                          |         |                                      |                                      |                                                |                                      |                           |                             |                        |                         |                     |                     |                      |                              |                                  |
| LNE-36V185WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-36V185WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-36V320WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-36V320WBAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-36V320WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-36V100WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V100WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V120WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V120WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V150WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V150WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V185WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V185WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V320WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V320WBCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-36V320WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V100WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V100WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V120WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V120WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V150WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V150WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V185WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V185WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V320WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V320WBAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V320WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-48V100WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V100WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V120WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V120WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V150WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V150WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V185WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V185WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V320WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V320WBCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-48V320WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-54V150WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-54V150WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-54V185WAAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-54V185WDAA          |    |                          |                                          |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         | △                           | △                      |                         | △                   | △                   | △                    | △                            | △                                |
| LNE-54V150WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-54V150WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-54V185WACA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| LNE-54V185WDCA          | ●  |                          | ●                                        |                          | ●                                           |                          |         |                                      | ●                                    | ●                                              | ●                                    | ●                         | ●                           | ●                      |                         | ●                   | △                   | ●                    | △                            | △                                |
| Open Frame Power Supply |    |                          |                                          |                          |                                             |                          |         |                                      |                                      |                                                |                                      |                           |                             |                        |                         |                     |                     |                      |                              |                                  |
| PJL-48V200WBAA          | ●  | ●                        | ●                                        |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         |                             |                        | ●                       |                     | ●                   |                      | ●                            |                                  |
| PJL-48V400WBAA          | ●  | ●                        | ●                                        |                          |                                             |                          | ●       | ●                                    |                                      |                                                |                                      | ●                         |                             |                        | ●                       |                     | ●                   |                      | ●                            |                                  |

△ Compliant



## What is Power Boost?

It is the reserve power available constantly that allows reliable startup of loads with high outrush current.



## Why is Power Boost beneficial?

Such feature is especially useful for applications where loads are active; the high surge current can cause the power supply unit (PSU) output to dip down if the PSU does not have the capability to withstand this surge current. Consequently, this could reset the system and result in system downtime.



## What is Advanced Power Boost (APB)?

Within a multiple loads connection, Advanced Power Boost (APB) can detect a faulty current path and provide a large outrush current to trip the circuit breaker connected to the faulty path. This prevents the system from shutting down while the other connected current paths continue to operate without interruption.



## What should I consider when selecting a power supply unit (PSU)?

- Input Type (Single Phase or 3 Phase)
- Output Power
- Efficiency and Reliability

Efficiency and Reliability are the two most important factors to consider in selecting a PSU.

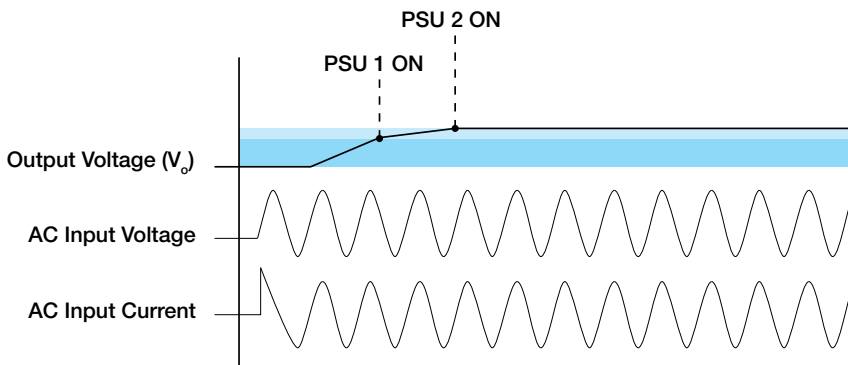
The best way to ensure the reliability of the PSU is to choose one that provides a maximum of 30% more output than your actual total requirement. For example, if your system has a 90W power requirement, you should choose a PSU with at least 120W power output rating. By doing so, you are boosting the reliability of the PSU as well as prolonging the entire system life.

An efficient PSU will thus ensure that power loss is minimized and will greatly help to lower your operating costs in the long run. By choosing a cheaper, but less efficient PSU will just mean that you are paying for it through your monthly electric bills. Delta's CiiQ DIN rail power supply easily give our users a substantial efficiency of up to 87% or more even when operating at <100% load. Other factors to consider include the operating conditions, types of safety certifications, PSU protection and application functions. Please contact your nearest Delta sales representative for a recommendation based on your requirements.



## What critical parameters do I have to watch out for when connecting the power supplies in series?

The turn ON would be non-monotonic as the power supply with the fastest startup time and rise time will turn on first. As a result, the startup waveform with 2 power supplies connected in series would see a step.



## Warranty

Delta warrants that the products (“Products”) sold in this catalog will be free of defects in material and workmanship within the warranty period. The warranty does not apply to Products which have been subjected to abuse, misuse, accident, neglect, unauthorized and/or improper installation, operation, use, maintenance, repair or alteration, or accident of unusual deterioration or degradation of the Products or parts thereof due to physical environment beyond the requirements of the Product specifications.

## Attention

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Delta reserves the right to make changes to the information described in the catalog and datasheets without notice.

## EMC Directives

At Delta, all of our products are designed to meet the highest quality standards. All national and international safety certifications including EMC directives are conducted by qualified and independent laboratories. For EMC directives’ compliance, the power supplies are tested to ensure compliance as a stand-alone product. Power supplies like the panel mount and open frame types are typically considered component power supply. Therefore, Delta cannot guarantee the system which is installed with Delta’s component power supply can meet the related EMC directives. Customers are advised to contact the system manufacturer for confirmation.

## Availability

Products with “New” tab are slated for official release with immediate effect, while products with “Coming Soon” tab will be available within the next two months from this catalog’s publication month (Refer to cover page). Kindly contact your local Delta distributor for availability, ordering and delivery details. You may also get in touch with us via the Feedback Form on **[www.DeltaPSU.com/feedback](http://www.DeltaPSU.com/feedback)**.



# Augmented Reality (AR) Power Supply Catalog

## Delta Standard Power Supplies

### Our innovations in a new perspective

Download **DeltaPSU AR** app to explore the products in 3D details (pages 16-17, 33-34, 54-55, 66, 76, 80, 92, 94, 108 and 120).



### 4 easy steps

- 1 Download **DeltaPSU AR** app from the App Store or Google Play.  
 
- 2 Open the app and select the "Scan AR" menu.
- 3 Scan product image with the  logo on the page to view the 3D product simulation.
- 4 Follow the instructions on the top right tab and users will be able to zoom in/out or rotate the product's 3D image for greater details.

#### \*Software and Hardware Requirements

- iOS devices: Requires iOS 10.0 or above. Compatible with iPhone 5 or above; iPad 2 or above.
- Android devices: Requires Android 5.0 or above. Requires 1 GB RAM or above.

# More Information

## Delta Standard Power Supplies

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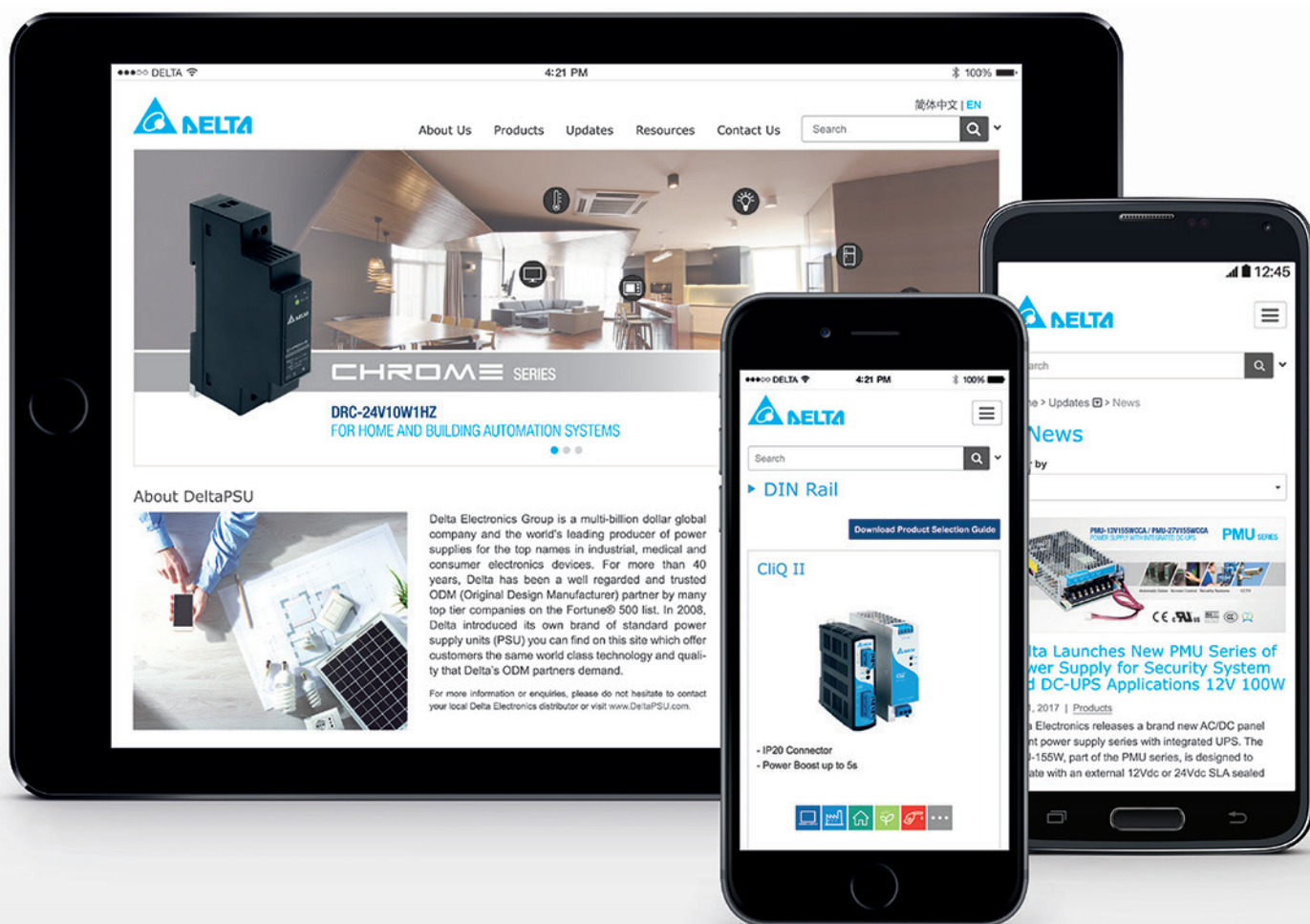


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## ASIA

### **Delta Electronics, Inc.**

3 Tungyuan Road, Chungli Industrial Zone,  
Taoyuan County 32063, Taiwan, R.O.C

Tel: +886 3 452 6107

Fax: +886 3 434 3617

### **Delta Electronics (Shanghai) Co., Ltd. Headquarters**

No. 182 Minyu Road, Pudong,  
Shanghai, P.R.C. 201209

Tel: +86 21 68723988

Fax: +86 21 68723996

### **Delta Electronics (Shanghai) Co., Ltd. Beijing Branch**

No. 7 Building, 6th Courtyard, Beichen East Rd.,  
Chaoyang Dist., Beijing, P.R.C. 100105

Tel: +86 10 82253225

Fax: +86 10 82251360

### **Delta Electronics (Thailand) PCL.**

909 Soi 9, Moo 4, Bangpoo Industrial Estate  
(E.P.Z.), Pattana 1 Rd., T. Phrakasa, A. Muang,  
Samutprakarn 10280, Thailand

Tel: +662 709 2800

Fax: +662 709 2827

### **Delta India Electronics Pvt. Ltd.**

Plot No. 43, Sector - 35, HSIIDC,  
Gurgaon, Haryana 122001

Tel: +91 124 4874900

+91 124 4169040

Fax: +91 124 4874945

### **Delta Electronics (Japan), Inc.**

2-1-14 Minato-ku Shibadaimon,  
Tokyo, 105-0012, Japan

Tel: +81 3 5733 1155

Fax: +81 3 5733 1255

### **Delta Electronics (Korea), Inc.**

1504, 219, Gasan Digital 1-Ro., Geumcheon-gu,  
Seoul, 08501 South Korea

Tel: +82-2-515-5305

Fax: +82-2-515-5302

## NORTH AMERICA

### **Delta Products Corporation North American Headquarters**

46101 Fremont Blvd.

Fremont, CA 94538, U.S.A.

Tel: +1 510 668 5100

## CENTRAL AND SOUTH AMERICA

### **Delta Greentech (Brasil) S.A.**

Rua Itapeva, 26 - 3º, andar Edifício Itapeva,  
One - Bela Vista 01332-000 - São Paulo - SP -  
Brasil

Tel: +55 11 3568 3850

Fax: +55 11 3568 3865

### **Delta Electronics International Mexico, S.A. de C.V.**

Centrum Park, Av. Gustavo Baz Prada 309  
Edificio E Planta Baja, Col. La Loma, C.P.

54030 Tlalnepantla, Estado de México

Tel: +52 1 55 3603 9200

## EUROPE

### **Delta Electronics (Netherlands) B.V. EMEA Headquarters**

Zandsteen 15

2132 MZ Hoofddorp, The Netherlands

Tel: +31 20 800 3900

Fax: +31 20 800 3999

De Witbogt 20, 5652 AG Eindhoven,  
The Netherlands

Tel: +31 40 800 3800

Fax: +31 40 800 3898

**Authorized Distributor:**