

# DPS Series 5W, 10W, 18W AC/DC DIN Rail Power Supplies



AC - DC din rail mountable 5W, 10W  
and 18W class 2 power supplies

- UL, cUL, CE
- Universal input 90~265VAC
- High efficiency up to 72%
- Short circuit protection
- Internal input filter
- 3 Year warranty



## Specifiction

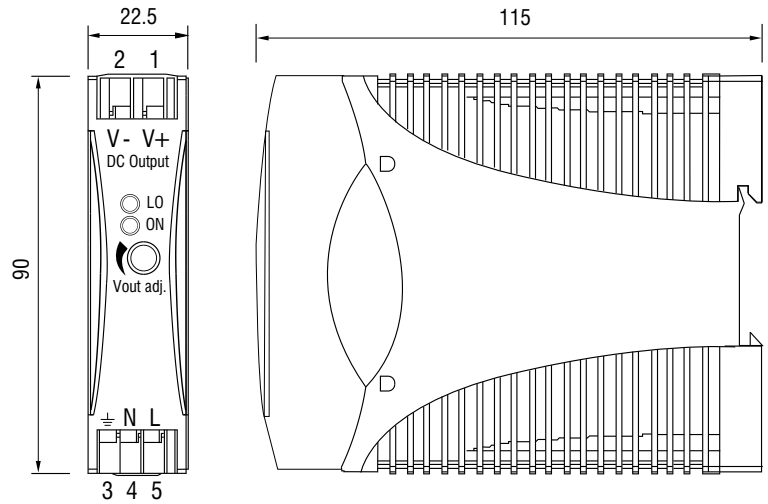
| Model                                     | DPS-1-005-24                                       | DPS-1-010-24 | DPS-1-018-24 |
|-------------------------------------------|----------------------------------------------------|--------------|--------------|
| Input Voltage                             | 90~265VAC                                          |              |              |
| Output Wattage                            | 5W                                                 | 10W          | 18W          |
| Output Voltage                            | 24VDC (Other output voltages available on request) |              |              |
| Output Current                            | 210mA                                              | 420mA        | 750mA        |
| Efficiency (min/typ)                      | 70/72%                                             | 74/76%       | 75/77%       |
| General Specification                     |                                                    |              |              |
| Switching frequency                       | 100kHz                                             |              |              |
| Isolation voltage                         | 3000VAC                                            |              |              |
| Isolation resistance                      | 100MΩ @ 500VDC                                     |              |              |
| Ambient temperature                       | -10 to +71°C                                       |              |              |
| Derating (from 61 to 71°C)                | 2.5%/°C                                            | 3%/°C        | 3%/°C        |
| Storage temperature                       | -25 to +85°C                                       |              |              |
| Relative humidity                         | 20 to 95% RH                                       |              |              |
| Cooling                                   | Free air convection                                |              |              |
| Dimensions                                | L90 x W22.5 x D115 mm                              |              |              |
| Weight                                    | 115g                                               | 120g         | 150g         |
| Case material                             | Plastic                                            |              |              |
| Input Specifications                      |                                                    |              |              |
| Rated input voltage                       | 100 to 240VAC                                      |              |              |
| Input voltage range                       | 90 to 265VAC, 120 to 370VDC                        |              |              |
| Line frequency                            | 47 to 63Hz                                         |              |              |
| Inrush current                            | 10A @ 115VAC, 18A @ 230VAC                         |              |              |
| Output Specifications                     |                                                    |              |              |
| Output voltage accuracy                   | ±1%                                                |              |              |
| Minimum load                              | 0%                                                 |              |              |
| Line regulation                           | ±1%                                                |              |              |
| Load regulation                           | ±2%                                                |              |              |
| Transient recovery time                   | 300μS @ 50% load, step changed                     |              |              |
| Temperature coefficient                   | ±0.02%/°C                                          |              |              |
| Ripple & noise                            | 50mV                                               |              |              |
| Hold up time                              | 30mS @ 115VAC, 130mS @ 230VAC                      |              |              |
| Voltage trim range                        | -10 to +20%                                        |              |              |
| DC ON indicator threshold at start up     | 21.6VDC                                            |              |              |
| DC LOW indicator threshold after start up | 18 to 21.6VDC                                      |              |              |
| Control and Protection                    |                                                    |              |              |
| Input fuse                                | T2A / 250VAC internal                              |              |              |
| Rated over load protection                | 110 to 135%                                        |              |              |
| Over voltage protection                   | 125 to 145%                                        |              |              |
| Output short circuit                      | Hiccup mode                                        |              |              |
| Approvals and Standards                   |                                                    |              |              |
| CE, UL/cUL                                |                                                    |              |              |

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## Dimensions (mm)

| Key         | Description                                                  |
|-------------|--------------------------------------------------------------|
| V+ (1)      | Positive output terminal                                     |
| V- (2)      | Negative output terminal                                     |
| $\perp$ (3) | Ground this terminal to minimize high-frequency emissions    |
| N (4)       | Input terminals (neutral conductor, no polarity at DC input) |
| L (5)       | Input terminals (phase conductor, no polarity at DC input)   |
| ON          | Operation indicator LED                                      |
| LO          | DC LOW indicator LED                                         |
| Vout adj.   | Trimmer-potentiometer for Vout adjustment                    |



## Construction

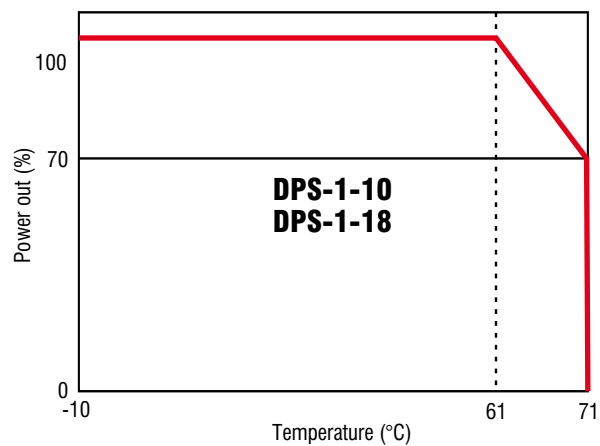
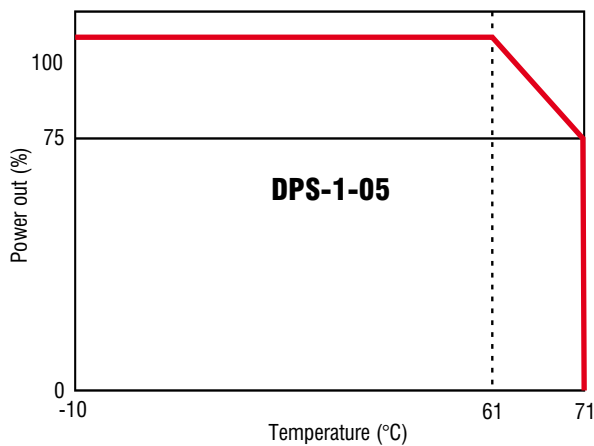
Easy, safe and secure  
snap-on, snap-off  
DIN-Rail mounting  
(TS35/7.5 or TS35/15)

## Installation

**Ventilation/Cooling**  
Normal convection  
All sides 25mm free space  
for cooling recommended

**Terminal size range**  
2 Solid: 0.2-2.0mm (AWG24-14)  
(use copper conductors only)

## Derating



## Connections

