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*We reserve the right to change the information in this catalogue without prior notice

DVP/DRP/PMC

Delta Power Supply





Features

- Easy wiring
- Overload protection
- Thermal protection
- Expected life time: 10 years
- RoHS compliant
- Power boost 150% for 3 seconds
- Compact design for easy handling
- Overvoltage protection
- Redundancy: Yes (with external oring diode)
- Warranty: 3 years (DRP), 2 years (PMC)

Introduction

The new DVP & PMC & CliQ series power supplies are the latest offering from Delta Electronics, the world's largest power supply manufacturer. The product offers a nominal output voltage of 24V, a wide temperature range from -20°C to +75°C and a minimum holdup time of 20ms. The state-of-the-art design is made to withstand harsh industrial environments. The rugged, ultra-compact case material is shock and vibration resistant according to IEC 60068-2. The power supply provides overvoltage, overload and thermal protection. The wide input voltage ranges from 85 to 264VAC (1 phase) and 320 ~ 575VAC (3 phase), and the multiple output terminals are for fast wiring and easy installation.

DVP/DRP

DC24V DIN-Rail Power Supply

Model DVP-PS01/02 Spec 24W/48W, DC24V, 1 phase (White plastic case)	Model DRP024V060W1AAZ Spec 60W, DC24V, 1 phase (Black plastic case)	Model DRP024V060W1AA Spec 60W, DC24V, 1 phase (Aluminum case)	Model DRP024V120W1AA Spec 120W, DC24V, 1 phase (Aluminum case)	Model DRP024V240W1AA Spec 240W, DC24V, 1 phase (Aluminum case)
Model DRP024V480W1AA Spec 480W, DC24V, 1 phase (Aluminum case)	Model DRP024V060W3AA Spec 60W, DC24V, 3 phase (Aluminum case)	Model DRP024V120W3AA Spec 120W, DC24V, 3 phase (Aluminum case)	Model DRP024V240W3AA Spec 240W, DC24V, 3 phase (Aluminum case)	Model DRP024V480W3AA Spec 480W, DC24V, 3 phase (Aluminum case)

DC12V DIN-Rail Power Supply **NEW**

Model DRP012V015W1AA Spec 15W, DC12V, 1 phase (Black plastic case)	Model DRP012V030W1AA Spec 30W, DC12V, 1 phase (Black plastic case)	Model DRP012V060W1AA Spec 60W, DC12V, 1 phase (Aluminum case)	Model DRP012V100W1AA Spec 100W, DC12V, 1 phase (Aluminum case)
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DVP/DRP/PMC

PMC

DC24V Panel Mount Aluminum-Case Power Supply **NEW**

Model PMC-24V035W1AA Spec 35W, DC24V, 1Phase (Aluminum case)	Model PMC-24V050W1AA Spec 50W, DC24V, 1Phase (Aluminum case)	Model PMC-24V075W1AA Spec 75W, DC24V, 1Phase (Aluminum case)	Model PMC-24V100W1AA Spec 100W, DC24V, 1Phase (Aluminum case)	Model PMC-24V150W1AA Spec 150W, DC24V, 1Phase (Aluminum case)	Model PMC-DSPV100W1A Spec 100W, DC5V/24V 1Phase, dual output (Aluminum case)
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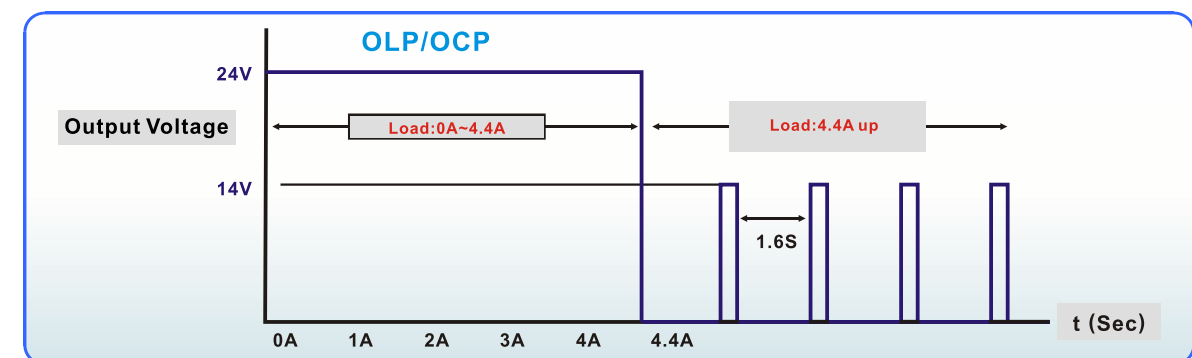
DC12V Panel Mount Aluminum-Case Power Supply **NEW**

Model PMC-12V035W1AA Spec 35W, DC12V, 1Phase (Aluminum case)	Model PMC-12V050W1AA Spec 50W, DC12V, 1Phase (Aluminum case)	Model PMC-12V100W1AA Spec 100W, DC12V, 1Phase (Aluminum case)
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Enhanced Security Level

Overload Protection

CliQ series power supply offers overload protection (OLP/OCP) to prevent damages resulted from overcurrent. When the rated current is higher than 150%, the output voltage will start to drop automatically. When the power exceeds the maximum limit and reaches UVLO (under voltage point), the power supply will enter the bouncing mode. Once the overload is eliminated, the output voltage will return to its normal volume.



Short Circuit Protection

When short circuit occurs at the output voltage terminal, the short circuit protection will force the power supply to enter the bouncing mode until the fault is eliminated.

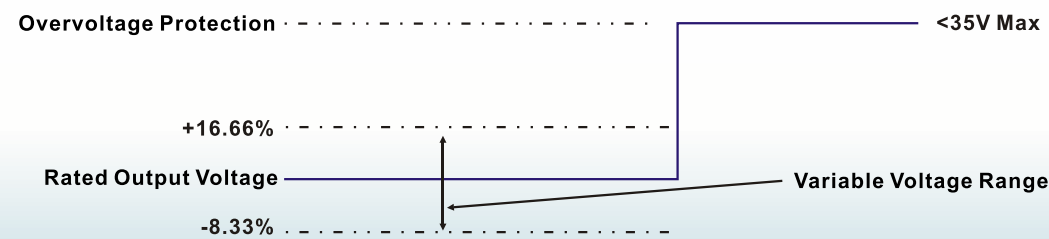


● Thermal Protection

When the overcurrent or overvoltage persists for a period of time and causes high temperature, the thermal protection will force the power supply to enter the bouncing mode until the fault is eliminated.

● Overvoltage Protection

When error occurs in the feedback device inside the power supply, the overvoltage protection (OVP) will force the power supply to enter level 2 output (30 ~ 32VDC) and the output voltage to be lower than 35V. After the error is eliminated, the output voltage will restore to 24V automatically.



● Redundancy Mode

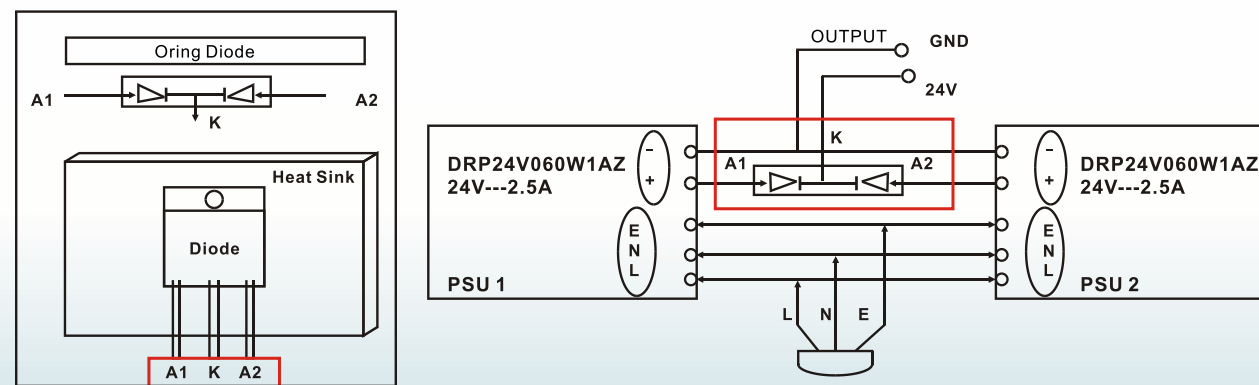
Connect the 2 power supplies, PSU1 and PSU2 as shown in the illustration below, and the power supply of bigger load will take over the entire load. The other will enter the redundancy mode.

● Parallel Mode

The parallel mode is shown as the wiring method below. Each of the 2 power supplies is responsible for half of the load.

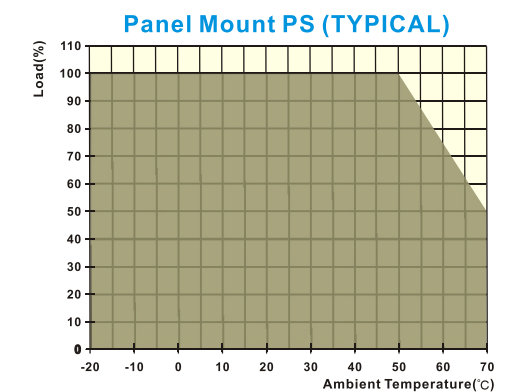
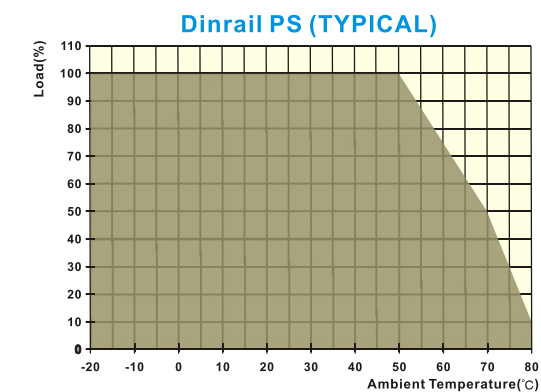
- Step 1: Measure the voltage from A1 to GND of PSU1 and the voltage from A2 to GND of PSU2. If the voltages measured are the same, skip to step 3; otherwise, move on to step 2.
- Step 2: Adjust the output voltage with the help of VR available on the front panel of the PSU marked as ADJUST for both PSU1 and PSU2 at the same level.
- Step 3: Confirm the output voltages from PSU1 and PSU2 are the same at a tolerance of $\pm 25\text{mV}$.

Note: The oring diode has to be of appropriate rating. Minimum 20Amps and 50Vrr are recommended for DRP024V060W1AZ model.



● Output Voltage Adjustment

The output voltage is 24VDC, which can be adjusted from 22 ~ 28VDC on the potentiometer ADJUST on the front panel of each power supply.



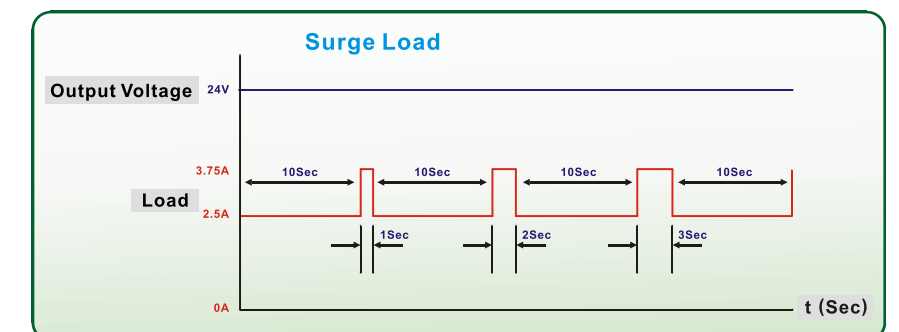
Note:

1. DO NOT use the power supply in the area outside the shaded portion as shown in the graph ; otherwise the internal parts may be damaged.
2. If the ambient temperature is higher than 50°C, the output capacity will drop 2.5% per Kelvin increase in the temperature. If the output capacity does not drop, the power supply will enter the thermal protection mode.
3. If you would like to mount the power supply in other directions, please contact your supplier for technical supports.
4. Please leave 2cm space between the power supply and other devices.

➤ Other Features

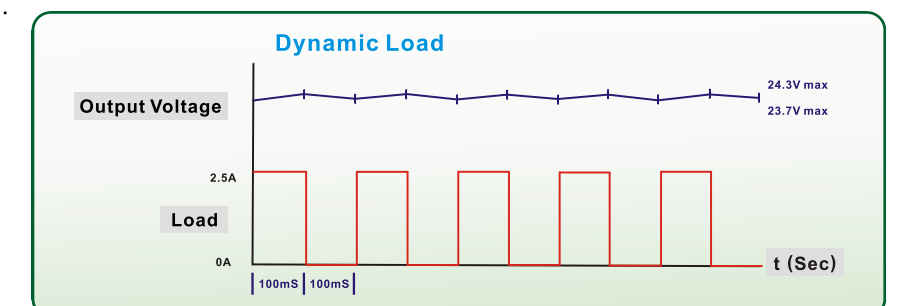
● Surge Load

The graph below illustrates a typical surge load capability of the power supply. The power supply is capable of enduring 3 seconds of a surge load of 150% of output voltage $\pm 5\%$ of regulated limit.

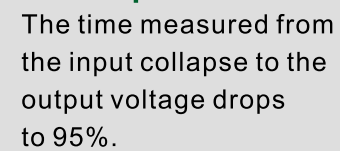
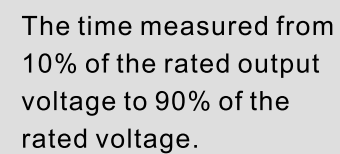


● Dynamic Load

The power supply is capable of accepting a dynamic change of load from 0% to 100% with output voltage $\pm 5\%$ of regulated limit.



The time measured from the AC input voltage is applied to it reaches 90% of the rated voltage.



Series Name	Power Supply	Input	Output	Model Name	Certificates
DVP	1 Phase	85 ~ 264 VAC	24V	DVPPS01	
				DVPPS02	
DRP	1 Phase	85 ~ 264 VAC/120~375 VDC	12V	DRP012V015W1AZ	
				DRP012V030W1AZ	
				DRP012V060W1AZ	
				DRP012V100W1AZ	
		85 ~ 264 VAC/120~375 VDC	24V	DRP024V060W1AZ	
				DRP024V060W1AA	
				DRP024V120W1AA	
				DRP024V240W1AA	
	320~575 VAC/450~800 VDC	DRP024V480W1AA			
					DRP024V060W3AA
					DRP024V120W3AA
					DRP024V240W3AA
	3 Phase	85 ~ 264 VAC/120~375 VDC	24V	DRP024V480W3AA	
				DRP024V480W3AA	
PMC	1 Phase	85 ~ 264 VAC/120~375 VDC	12V	PMC-12V035W1AA	
				PMC-12V050W1AA	
				PMC-12V100W1AA	
		24V	PMC-24V035W1AA		
			PMC-24V050W1AA		
			PMC-24V075W1AA		
			PMC-24V100W1AA		
			PMC-24V150W1AA		
			PMC-DSPV100W1A (Dual output)		
		5V	PMC-DSPV100W1A (Dual output)		
24V					

Model Number Breakdown:

- DVP PS 01** (Standard Power Supply)
 - DVP**: Series Name
 - PS**: Power Supply
 - 01**: Output Power
- DRP 024V 060W 1 AA** (DIN Rail Power Supply)
 - DRP**: DIN Rail Power Supply
 - 024V**: Output Voltage
 - 060W**: Output Power
 - 1**: 1 Phase
 - AA**: Aluminum Case

Legend:

- Series Name** (Red)
- Power Supply** (Green)
- Output Power** (Pink)
- Output Voltage** (Green)
- Output Current** (Green)
- 1 : 1 Phase** (Blue)
- 3 : 3 Phase** (Blue)
- AA : Aluminum Case** (Blue)
- AZ : Plastic Case** (Blue)
- DIN Rail Power Supply** (Red)
- Panel Mounting Enclosed Power Supply** (Red)