

DC Single Output Industrial DIN Rail Power Supply

PWR-40-24 / PWR-60-24
PWR-75-24 / PWR-120-48 / PWR-240-48

User's Manual

1. Package Content

Thanks for purchasing DC Single Output Industrial DIN Rail Power Supply units from PLANET technology; the DC Single Output Industrial DIN Rail Power Supply units can transform AC power into DC power output for PLANET Industrial Equipments

The DC Single Output Industrial DIN Rail Power Supply units come with one of the following models.

- **PWR-40-24 (MEAN WELL / MDR-40-24):** 40W 24V DC Single Output Industrial DIN Rail Power Supply (-20 ~ 70 Degree C)
- **PWR-60-24 (MEAN WELL / MDR-60-24):** 60W 24V DC Single Output Industrial DIN Rail Power Supply (-20 ~ 70 Degree C)
- **PWR-75-24 (MEAN WELL / DR-75-24):** 75W 24V DC Single Output Industrial DIN Rail Power Supply (-10 ~ 60 Degree)
- **PWR-120-48 (MEAN WELL / DR-120-48):** 120W 48V DC Single Output Industrial DIN Rail Power Supply (-10 ~ 60 Degree C)
- **PWR-240-48 (MEAN WELL / DR-240-48):** 240W 48V DC Single Output Industrial DIN Rail Power Supply (-10 ~ 70 Degree C)



Strongly recommend use 24V DC Single Output Industrial DIN Rail Power Supply units for Industrial Non-PoE Equipments; 48V DC Single Output Industrial DIN Rail Power Supply units for Industrial PoE Equipments.

Upon open the box of the DC Single Output Industrial DIN Rail Power Supply units and carefully unpack it. The box should contain the following items:

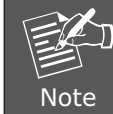
- The DC Single Output Industrial DIN Rail Power Supply Unit x 1
- This User's Manual x 1

If any item is found missing or damaged, please contact your local reseller for replacement.

2. Requirements

The DC Single Output Industrial DIN Rail Power Supply units are designed for provide DC power to PLANET Industrial Equipments. For AC power input and DC power output from DC Single Output Industrial DIN Rail Power Supply units, the following equipments are necessary for further installation.

- AC Power Cord Cable x 1
- Terminal block connector within two DC power inputs wires
- Cutting Tools: Long Nose Pliers and penknife

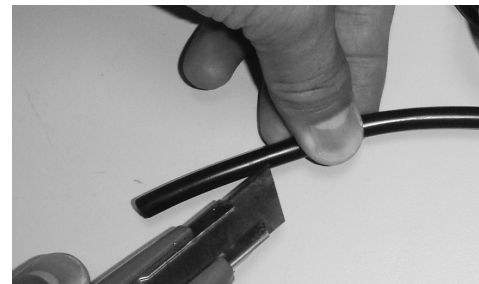


1. Before working on the device, please make sure power cord has been unplugged from power outlet.
2. PLANET DIN-Rail power supply series product is for in-door only.
3. PLANET DIN-Rail power supply series product must be earthed.

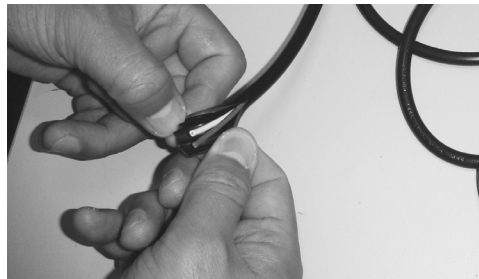
3. AC Power Cord Cable Installation

The DC Single Output Industrial DIN Rail Power Supply unit power requirement is 100-240V AC, 50/60Hz with power input lines. Suggest use standard AC Power Cord Cable.

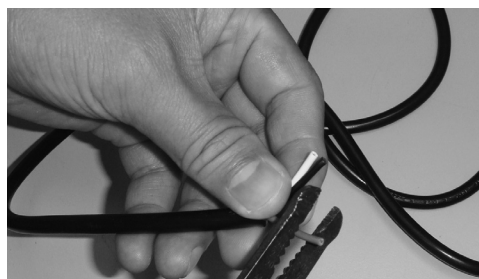
Step 1: Use penknife to cut open the AC Power Cord Cable.



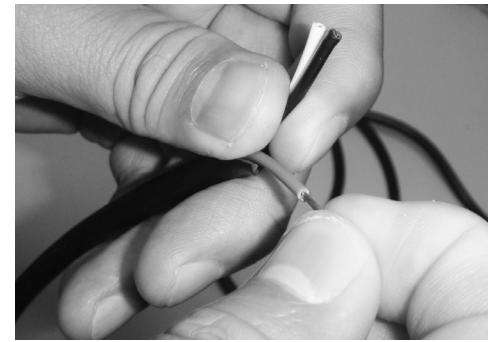
Step 2: Open the AC Power Cord Cable and there are 3 lines inside.



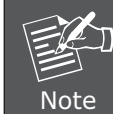
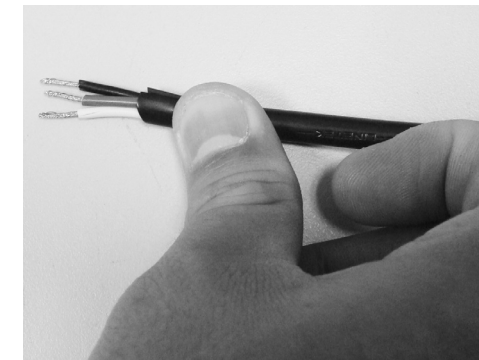
Step 3: Use Long Nose Pliers to remove the cover of 3 lines.



Step 4: Make sure the lines not disorderly and confused.



Step 5: Please verify the 3 lines, which is live line, null line and earth line.



The standard AC power cord, live line is black color, null line is white color and earth line is green color. Please verify these 3 lines from your AC power cord before start following procedure.

Live line	Black color
Null line	White color
Earth line	Green color

Step 6: Please connect the live line, null line and earth line to corresponding location.



Figure 1. Connect the 3 lines from AC Power Cord Cable to corresponding location.

Wiring the AC Power Input:

: Earth line.

N : Null line.

L : Live line.



1. Please do not connect the power plug of the power cable to a standard wall outlet during this installation.
2. The example is based on PWR-40-24, for PWR-75-24, PWR-120-48 and PWR-240-48. The indication will be the same, but different location.

Step 7: Please connect the power plug of the power cable to a standard wall outlet then it will power on the DC Single Output Industrial DIN Rail Power Supply units.

When the DC Single Output Industrial DIN Rail Power Supply units receive power, the "DC OK" LED should remain solid Green.



Figure 2. "DC OK" LED of DC Single Output Industrial DIN Rail Power Supply units.



1. The example is based on PWR-40-24, for PWR-75-24, PWR-120-48 and PWR-240-48. The DC OK indication will be the same, but different location.
2. +V ADJ. for O/P voltage adjustment (PWR-40-24 / PWR-60-24 only), the range is 24V to 30V. Adjustable with screwdriver and voltage measure with multimeter.



For PWR-120-48, one 115V AC / 230V AC adjustable DIP switch is located on the bottom of front panel. One 115V AC / 230V AC adjustable DIP switch (PWR-120-48 only), this is for system input voltage selection. Please assure the setting of AC DIP switch with local voltage is compatible, otherwise, it will cause device damage.
115V AC for 100V to 120V AC input voltage.
230V AC for 200V to 240V input voltage.

4. DC Power Terminal Block Installation

The DC Single Output Industrial DIN Rail Power Supply units consist two sets of DC power output contact and one set of DC OK Relay contact (**PWR-40-24 and PWR-60-24 only**).

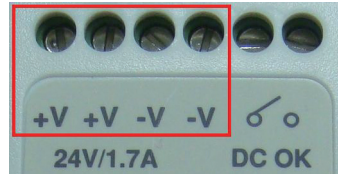


Figure 3. DC Single Output Industrial DIN Rail Power Supply upper Panel.

Note In this chapter, the example is based on PWR-40-24, for PWR-75-24, PWR-120-48 and PWR-240-48. There is no DC OK Relay Contact, also different DC voltage output contact location.

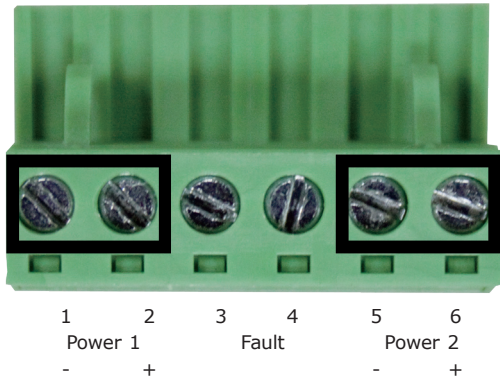
Wiring the Power Inputs

The two sets of DC power output contact of DC Single Output Industrial DIN Rail Power Supply units is used for connect to terminal block with two DC redundant powers input.

Note Please do not connect the power plug of the power cable to a standard wall outlet during this installation.

Please follow the steps below to insert the power wire.

Step 1: Please find one terminal block connector within two DC power inputs, the power contact distributor is shown as below:

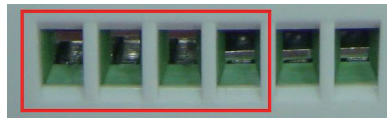


Note The wire gauge for the terminal block should be in the range between 12 ~ 24 AWG.

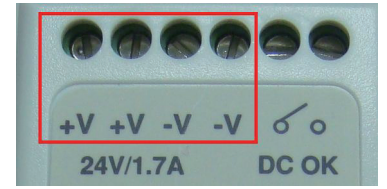
Step 2: Insert 4 DC power wires into the contacts 1 and 2 for POWER 1, or 5 and 6 for POWER 2.

Step 3: Connect the 4 DC power wires from terminal block to DC power output contact of DC Single Output Industrial DIN Rail Power Supply units.

Step 4: Tighten the wire-clamp screws for preventing the wires from loosening.



V+ V+ V- V- Relay Contact



Step 5: Install the terminal block on PLANET Industrial Ethernet equipments.

Step 6: Connect the power plug of the power cable to a standard wall outlet then the DC Single Output Industrial DIN Rail Power Supply units will get and provide power to PLANET Industrial Ethernet equipments.

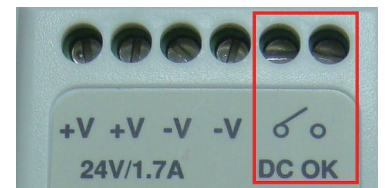
DC OK Relay Contact (PWR-40-24 / PWR-60-24 Only)

The PWR-40-24 / PWR-60-24 DC Single Output Industrial DIN Rail Power Supply unit provides DC OK Relay Contact function, the detail description shown as below:

Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load.



DC OK Relay Contact



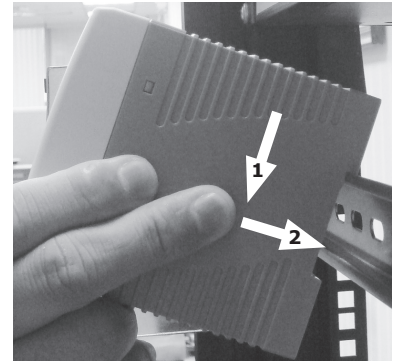
Note The wire gauge for the terminal block should be in the range between 12 ~ 24 AWG.

DIN-Rail Mounting

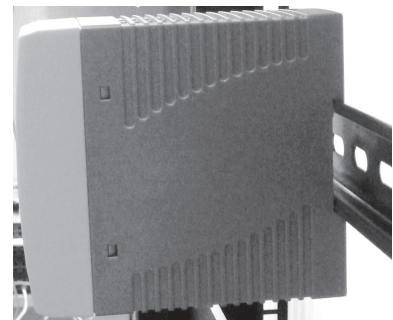
The DIN-Rail equips on the DC Single Output Industrial DIN Rail Power Supply units when out of factory. To hang the DC Single Output Industrial DIN Rail Power Supply units, follow the below steps:

Note

1. The example is based on PWR-40-24, for PWR-60-24, PWR-75-24, PWR-120-48 and PWR-240-48. The installation will be the same.
2. Admissible DIN-RAIL: TS35/7.5 or TS35/15.

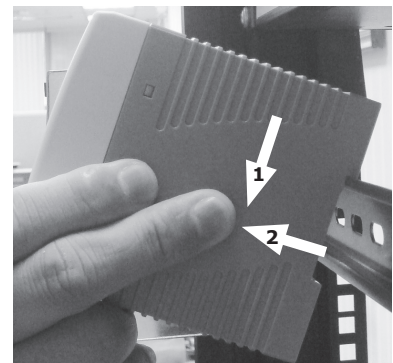


Step 1: Lightly press the button of DIN-Rail into the track.



Step 2: Check the DIN-Rail is tightly on the track.

Step 3: Please refer to following procedures to remove the DC Single Output Industrial DIN Rail Power Supply units from the track.



Step 4: Lightly press the button of DIN-Rail for remove it from the track.

5. Product Specifications

Model	PWR-40-24 (MEAN WELL / MDR-40-24)	PWR-60-24 (MEAN WELL / MDR-60-24)	PWR-75-24 (MEAN WELL / DR-75-24)
Hardware Specification			
Dimension (W x H x D)	40 x 90 x 100 mm	40 x 90 x 100 mm	55 x 125 x 100 mm
Weight (kg)	0.3kg	0.3kg	0.6kg
Input Voltage	100-240V AC, 50/60Hz, 1.1A	100-240V AC, 50/60Hz, 1.8A	100-240V AC, 50/60Hz, 2.0A
Power Output	40 Watts, 24V, 1.7A	60 Watts, 24V, 2.5A	75 Watts, 24V, 3.2A
Temperature	Operating: -20~70 Degree C Storage: -40~85 Degree C	Operating: -20~70 Degree C Storage: -40~85 Degree C	Operating: -10~60 Degree C Storage: -20~85 Degree C
Humidity Operating	Operating: 20 ~ 90% Storage: 10 ~ 95% (Non-condensing)		
Installation	DIN Rail TS-35/7.5 or 15		
Safety & Function*	PWR-40-24 (MEAN WELL / MDR-40-24): UL508, UL60950-1, TUV EN60950-1 approved, NEC class 2 / LPS compliant. PWR-60-24 (MEAN WELL / MDR-60-24): UL508, TUV EN60950-1 approved PWR-75-24 (MEAN WELL / DR-75-24): UL508, TUV EN60950-1 approved. PWR-120-48 (MEAN WELL / DR-120-48): UL508, UL60950-1, TUV EN60950-1 approved. PWR-240-48 (MEAN WELL / DR-240-48): UL508, UL60950-1, TUV EN60950-1 approved.		

Model	PWR-120-48 (MEAN WELL / DR-120-48)	PWR-240-48 (MEAN WELL / DR-240-48)
Hardware Specification		
Dimension (W x H x D)	65 x 125 x 100 mm	125 x 125 x 100 mm
Weight (kg)	0.79kg	1.2kg
Input Voltage	100-240V AC, 50/60Hz, 3.3A	100-240V AC, 50/60Hz, 3.5A
Power Output	120 Watts, 48V, 2.5A	240 Watts, 48V, 5A
Temperature	Operating: -10~60 Degree C Storage: -20~85 Degree C	Operating: -10~70 Degree C Storage: -20~85 Degree C
Humidity Operating	Operating: 20 ~ 90% Storage: 10 ~ 95% (Non-condensing)	
Installation	DIN Rail TS-35/7.5 or 15	
Safety & Function*	PWR-40-24 (MEAN WELL / MDR-40-24): UL508, UL60950-1, TUV EN60950-1 approved, NEC class 2 / LPS compliant. PWR-60-24 (MEAN WELL / MDR-60-24): UL508, TUV EN60950-1 approved. PWR-75-24 (MEAN WELL / DR-75-24): UL508, TUV EN60950-1 approved. PWR-120-48 (MEAN WELL / DR-120-48): UL508, UL60950-1, TUV EN60950-1 approved. PWR-240-48 (MEAN WELL / DR-240-48): UL508, UL60950-1, TUV EN60950-1 approved.	

* The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directive.



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