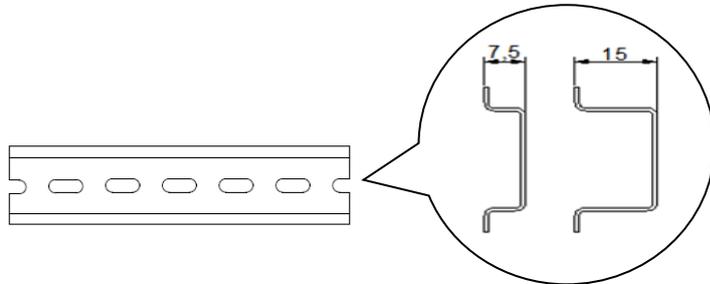


# Talent DIN-Rail Power Supply Quick Installation Guide

## I. INTRODUCTION:

DP-240W Series DIN-Rail Power Supply can be mounted on TS35/7.5 or TS35/15 standard DIN Rail.



## II. INSTALLATION

### II-1. DIN-Rail Mounting

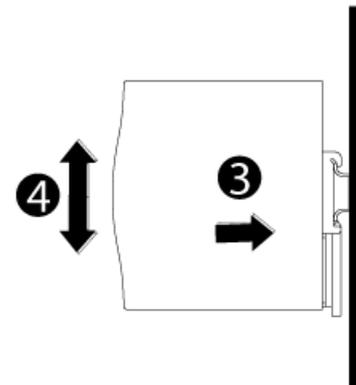
Please follow below instruction to mount the DIN-Rail Power Supply on the DIN-Rail track.

1. Insert the unit upper end of the DIN-Rail mounting bracket into the DIN-Rail track from its upper side.
2. Slide it downward until it hits the stop.
3. Lightly push the bottom of the DIN-Rail mounting bracket into the track.
4. Check if the DIN-Rail mounting bracket is tightly attached to the track.



#### NOTE:

- Mount the unit on DIN-Rail rack in vertical position to keep the input terminals at the bottom and output on the top. Other positions are not allowed such as desktop, upside down or horizontal mounting.
- Disconnect AC power before installing wiring.

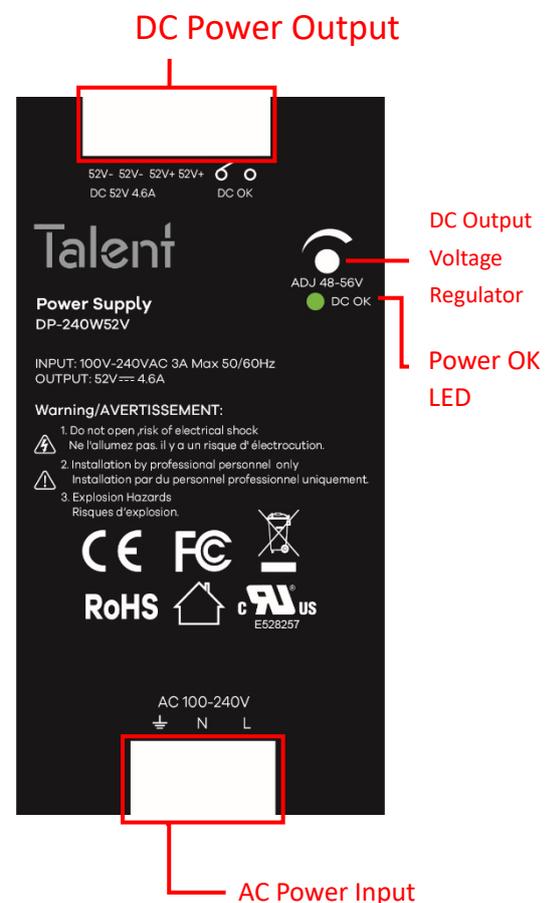


## II-2. Wiring AC Power Inputs and DC Output

1. Maintaining good ventilation clearances for DIN Rail power supply, 10mm left and right, 40mm above and 20mm below, in order to prevent it from overheating.
2. To dissipate heat, please keep 15 cm away from the adjacent heat source.
3. The AC input (100-240V) and DC output (24V/52V) wire recommended at least 0.8mm<sup>2</sup> (AWG18) and UL1007 (withstand temperature > 80°C).

|  |                    |
|--|--------------------|
| AWG                                      | 18                 |
| Rated Current of Equipment(Amp)          | 7A                 |
| Cross-section of Lead (mm <sup>2</sup> ) | 0.8mm <sup>2</sup> |

4. Recommended wire strapping length: 6.5mm(0.255")
5. **AC Power Input Wiring:** For AC (100—240V) power input wiring, please connect to L (Live line), N (Null Line) and GND (Ground) terminals. Tighten the screws to prevent the wires from loosening.
6. **DC Power Output Wiring:** Insert the Negative / Positive DC wires into the PWR terminals (V52-, V52+) respectively. Tighten the screws to prevent the wires from loosening.
7. "+ V Adj " DC Output Voltage Regulator can adjust the DC voltage from 48V to 56V
8. Insert the wires (no electrical polarity) into the "DC OK" terminal block (Fault Alarm Relay). Tighten the screws to prevent the wires from loosening.



### III. LED STATUS

| Function | Status        | Description                         |
|----------|---------------|-------------------------------------|
| DC OK    | On<br>(Green) | Power on, ready to supply DC 48-56V |
|          | Off           | Power off or malfunction            |

### IV. PRODUCT SPECIFICATION

| Model                | DP-240W series                  |  |                     |
|----------------------|---------------------------------|--|---------------------|
| Output               | Rated voltage                   | 24V  | 52V                 |
|                      | Rated current                   | 10A  | 4.6A                |
|                      | Current range                   | 0-10A  | 0-4.6A              |
|                      | Rated power                     | 240W   | 240W                |
|                      | Ripple                          | <150mV                                       | <200mV              |
|                      | Voltage regulation              | ±2%  | ±2%                 |
|                      | Adjustable output voltage range | 24VDC  | 52VDC               |
| Input                | Voltage range                   | 100-240VAC                                   | 100-240VAC          |
|                      | Frequency range                 | 50Hz-60Hz                                    | 50Hz-60Hz           |
| Protection Functions | Short circuit protection        | Swing self-recovery                          | Swing self-recovery |
|                      | Over current protection         | Swing self-recovery                          | Swing self-recovery |
| Environment          | Operating temperature           | -25 °C to +70 °C (Refer to "Derating Curve") |                     |
|                      | Operating humidity              | 20% - 90% RH non-condensing                  |                     |
|                      | Storage temperature             | -40 °C to +85 °C                             |                     |
|                      | Store humidity                  | 10% - 95% RH non-condensing                  |                     |

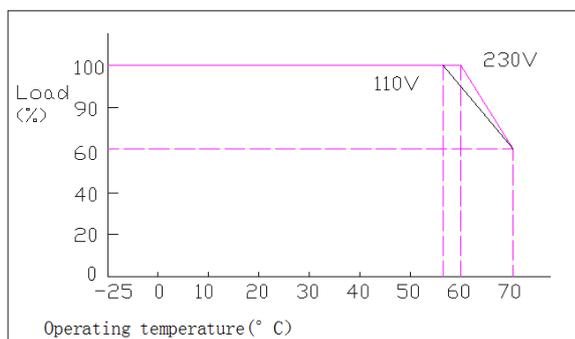


### Warning Caution!!!

- (1) Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!
- (2) Risk of electric arcs and electric shock (danger to life). Connecting both the primary and the secondary sides together is not allowed.
- (3) Risk of burn hazard. Do not touch the unit in operation and shortly after disconnection!
- (4) Risk of fire and short circuit. The openings should be protected from foreign objects or dripping liquids.
- (5) Only install the unit in a pollution degree 2 environment .
- (6) Please do not install the unit in places with high moisture or near the water.
- (7) Please do not install the unit in places with high ambient temperature or near fire source.
- (8) Output current and output wattage must not exceed the rated values on its specification.
- (9) Pollution Degree 2 applies where there is only non-conductive pollution that might temporarily become conductive due to occasional condensation. Generally refer to dry, well-ventilated locations, such as control cabinets.
- (10) When installing the product, the product needs to have separate grounding measures, the protective connection conductor wire must be at least 18AWG, and the screw diameter must be at least 3.5mm.
- (11) Note that the bipolar / neutral line fuse has been connected.

### Derating Curve:

Operating temperature Load derating curve



Input voltage Load derating curve

