

User Manual

Type: FO-DIN6048 INPUT 100-240VAC 0.65A 50/60Hz OUTPUT: 48V 1.25A

Introduction

The FO-DIN6048 power supply has a 0.9W power consumption with no load. It can be installed on TS35 DIN rail systems. It also includes a 3" steel TS35 DIN rail in the package and mounting screws for wood or concrete installation.

Unit provides 48V/1.25A output and includes features such as: output over-current protection, short circuit protection, over voltage protection, battery under-voltage protection, adjustment for output voltage, wide input voltage and constant output voltage.

Technical specifications

Input Voltage: 100-240VAC

Output Voltage: 48V

Input Current: 0.3~0.65A MAX

Output Current: 0-1.25A MAX

Frequency Range: 47~63Hz

No-load loss: 0.9W

Output Ripple: 120mV

Efficiency: > 85%

Operating Temp.: -10~60°C

Storage Temp.: -20~85°C

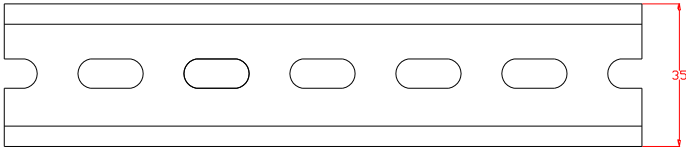
Operating humidity: 20~90%RH, NC

Storage humidity: 10~90%RH

Case size: L97mm*W87.8mm*H50mm

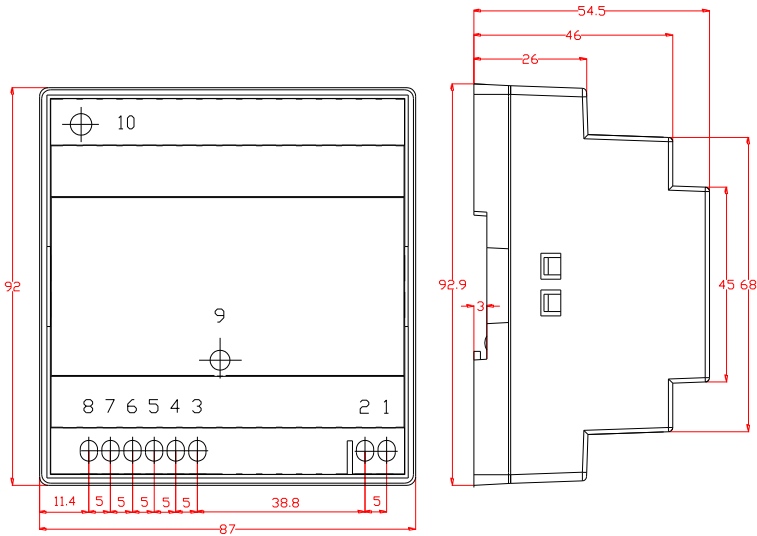
Installation

- (1) Always install with good ventilation clearances: 10mm left and right, 20mm bottom and 50mm on top
- (2) The power supply must always be installed vertical using the DIN rail provided (do not operate unit in a horizontal or upside down position!)
- (3) Use a minimum AWG#18 wires made of copper for power connections
- (4) If using multi stranded wires make sure there are no straggler wires outside of each screw box
- (5) Use a flat 3mm wide screwdriver to tighten screws, torque 4.4lb/in minimum for secure wiring
- (6) Suggested fuse is rated T2.5A/L250V for the AC input
- (7) Unit should be secured to DIN rail TS35/7.5 or TS35/15; please follow procedure described as follows



DIN rail: TS35/7.5 or 35/15

- Tilt PS with top rearwards and bottom forwards (while holding it vertical next to rail)
- Fit the PS on top of rail and push down all the way
- Bring bottom to vertical position again until it clicks onto rail
- Check power supply is securely attached



Pinout description

NO.	Function	NO.	Function	NO.	Function	NO.	Function
1	AC/N	3,4	+V	7	NC	9	LED
2	AC/L	5,6	-V	8	NC	10	+VADJ.

WARNING/CAUTION !!

1. RISK OF ELECTRICAL SHOCK AND ENERGY HAZARD. DO NOT OPEN
2. THIS UNIT IS INTENDED FOR CONTROLLED ENVIRONMENT ONLY
3. SUITABLE for CLASS 1, DIV 2, GROUPS A, B, C, D and NON-HAZARDOUS LOCATIONS
4. Risk of burn hazard: do not touch unit during operation
5. Only install in degree 2 pollution environment (non-conductive pollution that temporarily might become conductive, such as occasional condensation) – use dry, well ventilated locations, preferably controlled ambient cabinets
6. Do not install in wet/running water or high moisture environments
7. Check LED light is green (DC OK) before use
8. Disconnect power when unit is installed, make sure inadvertent power supply contact is impossible

Picture

