

# INSTALLATION SHEET

Before operation, ensure you have read and understood all the information and instructions in this leaflet.

- Disconnect the system from the supply network before undertaking any installation, maintenance, modification or removal.
- The unit must be installed only by qualified personnel. As a minimum, the following conditions must be met:
- Connection to the mains supply must be compliant with VDE0100 and EN50178.
- All wires must be properly secured in terminal blocks.
- Unit and power supply wires must be properly fused.
- All output wires must be correctly rated and connected with the correct polarity.
- Sufficient air cooling must be ensured. Do not cover ventilation holes leave sufficient space for cooling around the unit.
- No modifications should be made while the unit is in operation.
- Only disconnect when the power is off.
- This unit contains unprotected conductors carrying a lethally high voltage. Improper usage or handling may result in electric shock or serious burns.
- Do not introduce any object into the unit.
- Keep away from fire and water.
- Refer to product datasheet for more technical parameters.

## Installation

The PSU is a primary switched-mode power supply designed for use in panel-board installations or building-in applications where access to the supply is restricted. It must only be installed and put into service by qualified personnel.

## Mounting

See Step 1 & 2. Ventilation holes must be kept clear - recommended minimum clearance is 25mm on all sides. To mount, tilt the top of the unit backwards and clip to the top edge of the rail, tilt the bottom of the unit backwards and click into place.

Before removal switch off mains power and disconnect rack from the supply network. Push down the slider at the rear (see Step 1), tilt front of unit forwards and up.

#### Connection

Ensure that wires used are suitable for the load - see technical data below. Ensure that wires are correctly stripped and fitted - see Step 3 overleaf. Ensure correct polarity at output terminals.

### Internal Fuse

The internal fuse protects the unit and is not user-replaceable. In the event of an internal failure, the unit should be returned to Farnell.

The output voltage can be adjusted by partially turning the potentiometer as indicated on the front of the power supply. The voltage range is indicated in the specification table below.

### Input

Input Voltage

•85~277VAC (120~390VDC)

Input Frequency Input Current Inrush Current Leakage Current

Power Factor

• 47-63 Hz •5/2 5A

•15/35A •<1.5mA •0.99/0.97

Output

**Output Voltage** Output Voltage Range

Minimum Capacitive Load Hold Up Time Line Regulation

Load Regulation Ripple & Noise

Overvoltage Protection DC OK Signal

Short Circuit Protection

• See table

See table

See table

• 16ms min, 22ms max. • ± 0.55% typ.

• ± 0.5% typ.

See table

· Hiccup, self-recovery

• 30VDC/1A Max.

· Constant current works, self-recovery

# **EMC& Safety**

ESD Immunity

Radiated Immunity

EFT/Burst Surae

Conducted Immunity Dips & Interruptions Safety Approvals

- EN55032, Class B conducted & radiated
- EN61000-4-2, Criteria A
- EN61000-4-3, Criteria A
- EN61000-4-4, Criteria A
- EN61000-4-5, Criteria A • EN61000-4-6, Criteria A
- •EN61000-4-11
- UKCA/EN 62368-1 UL61010-1



Output Voltage	Output Power	Output Voltage Range	Output Current	Ripple & Noise pk-pk	Typical Efficiency	Maximum Capacitive Load	Model Number
24V	480W	24-28V	20.0A	100mV	95.0%	100000µF	MPIMF480-23B24
48V	480W	48 <b>-</b> 56V	10.0A	150mV	95.5%	25000µF	MPIMF480-23B48

# General

Efficiency Isolation

See table

 4000 VAC Input to Output •DC ON indicator LED Green Signal

DIN Rail • Compatible with TS35/7.5 or TS35/15

# Environmental

Operating Temperature

Cooling

Shock & Vibration

Operating Humidity Storage Temperature •-40°C to +85°C:

•Free air convention

•95% RH max, non-condensing

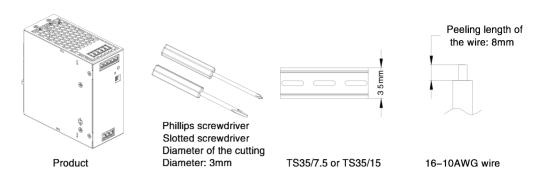
•-40°C to +85°C

• Tested to GB/T2423.10-2008 and

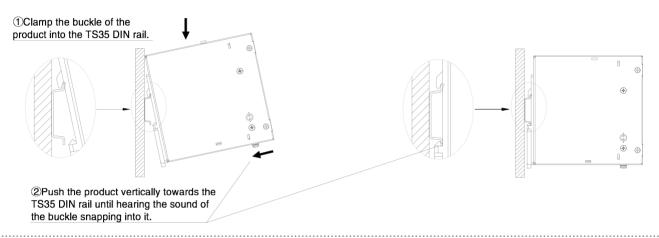
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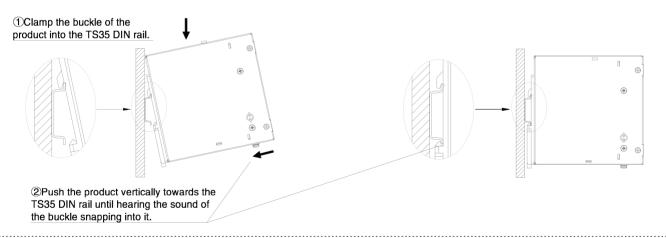
Mate	stallation				
1	Product	1 PC			
2	Phillips screwdriver Slotted screwdriver	1 PC			
3	TS35/7.5 or TS35/15	1 PC			
	16-10AWG wire	/ PCS			
4	The content is for reference only. Regarding the actual wire diameter and tightening torque, refer to the dimensional drawing.				



# Installation Steps 1-2



# Disassembly Steps 3-4



# Wiring / Unwiring Steps 5-6

