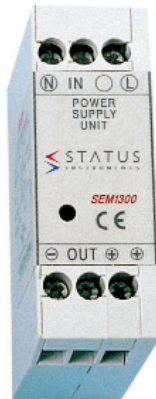


**SEM1300**

**Power Supply Unit**



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## 1.0 DESCRIPTION

The SEM1300 is a DIN rail mounted power supply.

## 2.0 SPECIFICATION

### 2.1 INPUT

Supply	(90 to 253) VAC (50 to 60) Hz
Efficiency	70 % typical @ 230 VAC 250 mA
Protection	1 A (T) anti-surge fuse (not supplied) must be fitted in the live supply line
Filter	In-built EMC filter
Power Rating	10 VA maximum

### 2.2 OUTPUT

Voltage	24 VDC $\pm$ 0.5 % @ 250 mA. Short circuit protected
Ripple	100 mV peak to peak
Indication	Power on LED
Isolation	2500 V flash tested to supply
EMC Tested To	BS EN61326
Electrical Safety	BS EN61010-1

### 2.3 GENERAL

Ambient	(0 to 50) °C; (10 to 95) % RH non condensing
Protection	IP20
Connection	Captive screw terminals
Cable Size	4 mm <sup>2</sup> solid/2.5 mm <sup>2</sup> stranded
Case Material	Grey Polamide
Flammability	To UL94-V0 VDE 0304 Part 3, Level IIIA
Dimensions	(60 x 60 x 21) mm (67.5 mm above rail)
Mounting	Snap on "Top Hat" (DIN EN 50022-35)
Maximum Vibration	12 G (10 to 55) Hz at double amplitude 2 mm
Shock Res.	12 G
Weight	100 g

## 3.0 INSTALLATION

### 3.1 MECHANICAL

This power supply must be housed within a suitable enclosure that will provide protection from the external environment, ensuring that the specified operating temperature and humidity ranges are maintained.

The SEM1300 case is designed to snap fit onto a standard "Top Hat" DIN rail. To remove apply pressure on the bottom back of the enclosure, push upwards towards the rail to release the spring clip and tip forward. The unit may be mounted in any orientation and stacked side by side along the rail, but SEM1300 is best located clear of any signal wires or equipment.

### 3.2 ELECTRICAL

#### ● WARNING!



- If not installed and used in accordance with these instructions, protection against hazards may be impaired.
- Hazardous voltages may be present on the terminals - the equipment must be installed by suitably qualified personnel and mounted in an enclosure providing protection to at least IP20.

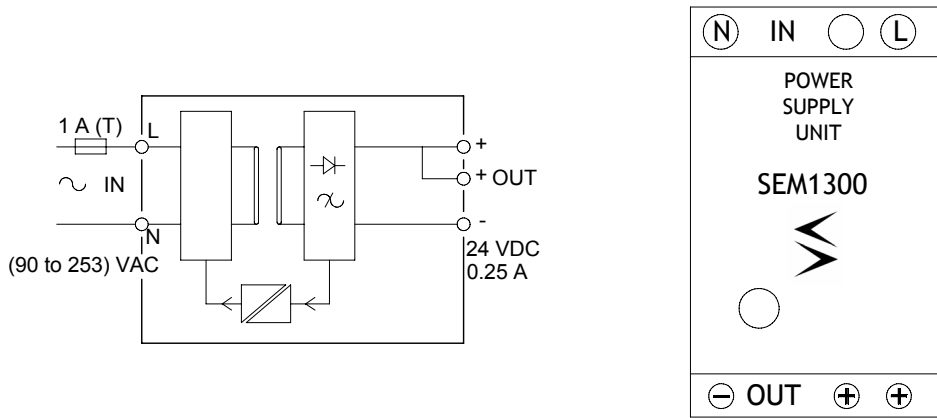
Connections to the unit are made via screw terminals. Wire protector plates are provided inside each terminal. **IMPORTANT A 1A (T) ANTI-SURGE FUSE MUST BE CONNECTED IN SERIES WITH THE LIVE SUPPLY LINE AND A SUITABLE SWITCH OR CIRCUIT BREAKER, WHICH SHOULD BE NEAR THE EQUIPMENT.** Two positive output terminals are provided to ease wiring.

The equipment contains no user serviceable parts.

Installation overvoltage category -2 (as per BS EN61010-1)

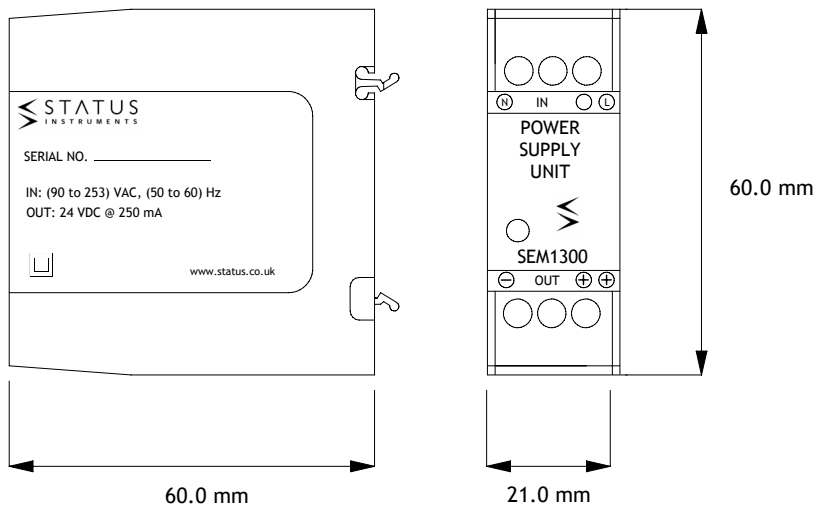
If this equipment is to be used in environments with overvoltage category 3, transient suppressors should be installed on supply wiring.

Figure 1



**4.0 MECHANICAL DETAIL**

Figure 2



**ALSO AVAILABLE:**

- Smart In Head Temperature Transmitters
- DIN Rail Mounted Temperature Transmitters
- Panel & Field Temperature Indicators
- Temperature Probes
- Trip Amplifiers
- Signal Conditioners
- And many other products

For further information on all products:



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