



Power Supply Unit for XPoint

Functional characteristics

OP-PA01 is a battery-based power supply module capable of supplying power with the following characteristics:

- ◆ Designed for wall-mounting
- ◆ Capable of delivering 1A at 14V (Xpoint with reader)
- ◆ Capable of battery-powering one Xpoint for up to 4 hours (in energy recovery mode with display Off)
- ◆ Battery disconnection at 10V for overload protection
- ◆ Output can be connected in parallel with other power supplies
- ◆ Visual On/Off indicator for main power supply
- ◆ Battery state indicator (quick charge/switch-off)
- ◆ Connection to Xpoint through an RJ45 connection (FD-BUS)

Protection

The equipment is protected against the following events:

- ◆ polarity reversal on the cables (RJ45) connecting to the FD-BUS
- ◆ voltage surge in the incoming power supply
- ◆ temporary short-circuit on the output

Modes of Operation

- ◆ The OP-PA01 can power one Xpoint and one reader associated with it.

Visual indicators

The OP-PA01 can give signals to the user by the following means:


- ◆ red LED
- ◆ green LED

The most common indications are as follows:

- ◆ Green LED, lit steadily when main power is On
- ◆ Green LED, flashing when main power is Off
- ◆ Red LED, flashing during quick charging
- ◆ Red LED, steadily lit when switch-off is imminent.

All indicator signals are generated locally.

Technical Details

Parameter	Description
Dimensions	240x160x55mm
Weight	1100g
Power supply input voltage	From 180V _{AC} to 250V _{AC} 50Hz or 60Hz
Power consumption (per I_{out}=1.0A)	Max 150mA at 230V _{AC} (considering 1A to Xpoint+reader and 0.3A of battery charging)
Start-up current	Max 500mA at 230V _{AC} for less than 2 sec.
Output voltage	From 14V _{DC} to 14.5V _{DC} (powered by mains) From 10V _{DC} to 14V _{DC} (operating on battery)
Output current	Max 1.1A Peak 1.8A (not more than 2 minutes)
Operating temperature	0 ↔ 40°C
Relative humidity	Up to 95% without condensation
Mounting	Vertical wall-mounting
Connections	Terminal for 230V input cable up to AWG12 RJ45 connection for FD-BUS cable
Fuses	Input fuses: 0.5A 250V T (5x20) Battery fuse: 2.5A 250V T (5x20)
Indicator signals	Red battery state LED <ul style="list-style-type: none"> Flashing: quick charging in progress (until V_{batt}>14.5V or 5 hours of quick charging have elapsed) Steadily lit: V_{OUT}<10V_{DC}. Shutdown request signalled - switch-off within 30 sec.- Green charging state LED <ul style="list-style-type: none"> Flashing: running on battery (charging voltage V_{IN}<10V_{DC}) Steadily lit: normal operation
Other functions	<ul style="list-style-type: none"> Short-circuit protection on output Battery overload protection at 10V Battery overload protection at 0.3A (current limiter)
Compliance	 Directives 89/336/EEC, 93/68/EEC, 92/31/EEC EN60950, EN 55022, EN 55024