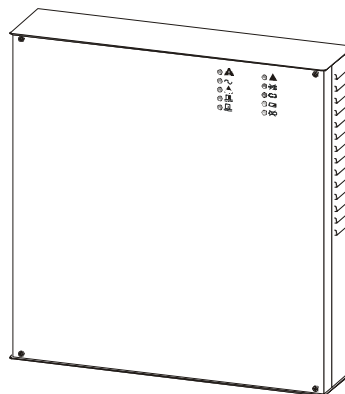


POWER SUPPLY

PS-25

INSTALLATION MANUAL



DESCRIPTION

The PS-25 Power Supply has been especially designed to satisfy the backup power needs of particularly demanding Fire control systems. **PS-25** has a PCB and a Power Supply Module located inside a metal box. The Power Supply Module supplies continuous voltage from the Mains. The enclosure box can house standby batteries for power in the event of black-out (mains voltage failure).

PS-25 Features

- 10 Warning LEDs (General Fault, Mains, Output 1, Output 2, Low Battery, No Battery, Battery Charger fault, Switching Power Supply Disconnected, Battery Disconnected, CPU Fault)
- 1 Fault Relay Output

INSTALLATION

Locate the Power Supply as near as possible to the devices it must supply, this will reduce the voltage drop on the connections to a minimum.

- Choose the place of installation, and lay the cables.
- Drill the holes for the Power Supply. Check for water pipes and wiring before drilling.
- Pull the wires through the wire entry (6).
- Using the screw locations (1), mount the Power Supply.
- Complete the connections on the terminal board 21. Do not connect the mains voltage (230 V) at this point.

The Mains wires should be bunched and stripped but not soldered.

- Using the terminal board (14), connect the mains voltage (230 V -15/10% 50/60 Hz) to the Power Supply Module.

CAUTION: In order to comply with safety regulations, the Line must be connected to terminal [L] and the Earth to terminal [⌚], and a bipolar isolating device (e.g. an auto-matic isolating switch) must be connected to protect against overvoltage and short-circuit.

- Locate the battery, then using the connectors (5), connect it to the PCB. When connecting a 17 Ah battery, use eyelet terminals instead of the connectors (5).

The eyelet terminals must be secured by means of a screw and nut.

+ Ensure the connection polarity is correct. In the event of unintentional inversion, replace fuse 24 (T 8A 250 V).

+ The PS-25 Power Supply requires two 12 V batteries that, when connected in series by means of jumper 7 will supply 24 V (see fig. 2).

TECHNICAL FEATURES	
Input voltage	230 V ~ -15/ +10% 50/60Hz
Maximum current draw	0,9 A
Output voltage	27 V ±1%
Minimum output voltage	20,4 V ±1%
Nominal voltage	27,6 V
Nominal current supplied	2,5 A
Maximum current supplied	1,9 A
Recharge time (up to 80% capacity)	24 h
Battery compartment Make Model (* An equivalent with a case flame class of UL94-V2 or over	2 x 12 V - 17 Ah (**) YUASA NP 17-12 FR (*)
Power Module shutdown threshold	29,4 V
Low Battery Signal Threshold	22,0 V
Battery shutdown Threshold	20,4 V
Operating temperature	-5 ÷ +40 °C
Insulation level	I
Dimensions (W x H x D)	383 x 408 x 97 mm
Weight (with 17 Ah battery)	16,5 Kg
Security grading	—
(**) Series connection of the two 12 V batteries will supply 24V.	

N.	PARTS IDENTIFICATION
1	4 wall-mount screw location (4 Ø mm)
2	Electronics Module
3	Connection wire between Power supply module and PCB to control output voltage
4	Compartment for 2 x 12V, 17Ah batteries
5	Battery connectors
6	Wire entry
7	Connection of two 12V battery
8	Power supply Module
9	KST thermal probe (accessory item) for optimization of the battery charge process
10	Power module output voltage LED
11	Power supply output voltage trimmer (DO NOT ADJUST)
12	Auxiliary output

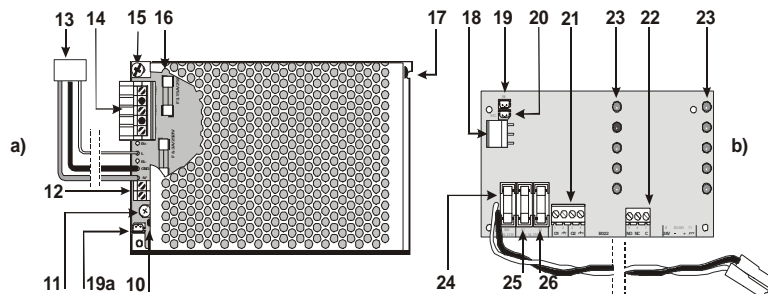


Fig. 1- Parts: a) Power Supply Module; b) Electronic Module

N.	PART IDENTIFICATION
13	Connector to be used for the connection of the Power Supply Module to the PCB
14	Terminal connector for the mains voltage connection (230V , 50 Hz)
15	Screws (to be removed when the Power Supply Module is opened)
16	Power Supply Module Fuse
17	Pin (to be removed when the Power Supply Module is opened)
18	Power Supply Module connector
19	Connector - to be used for the connection to the output voltage control circuit
19a	Connector to be used for the connection of the Power Supply Module to the on board output voltage control circuit
20	Thermal probe connector
21	Terminal connector for protected output (O1 & O2)
22	Fault relay connection
23	LEDs
24	Fuse (T8A 250V) -protects against reversed battery polarity
25	Fuse (T6.3A 250V) -protects O1 output
26	Fuse (T6.3A 250V) -protects O2 output

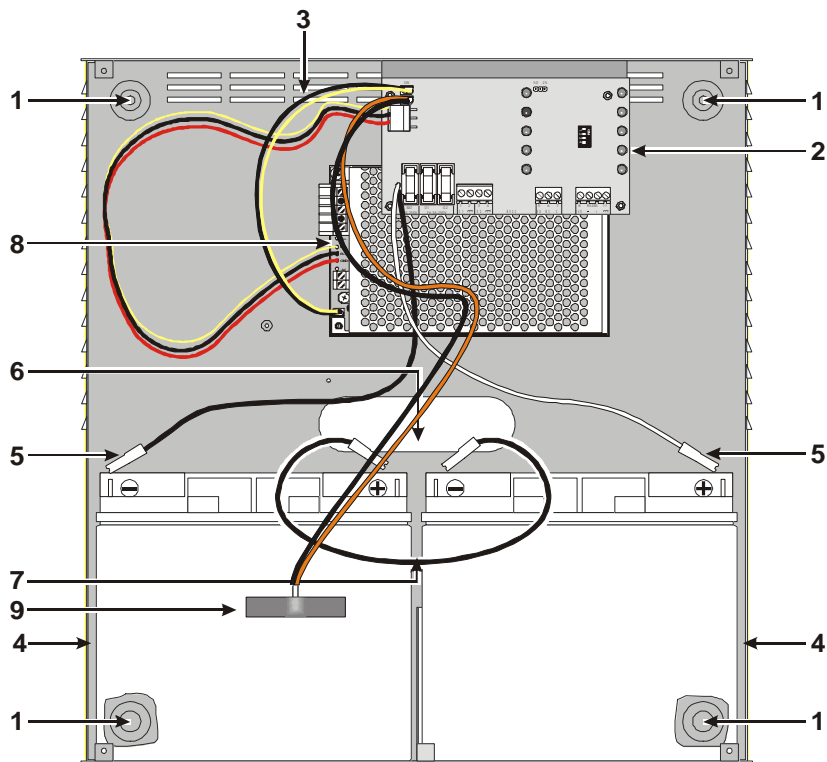


Fig. 2- Power Supply Station parts.

