

PSU830 Power Supply



The MZX PSU830 power supply module is a state-of-the-art integrated switch mode system power supply and battery charger, which can provide up to 5 A external and auxiliary loop power during alarm conditions.

The charging voltage is temperature compensated. The power supply recharges the batteries within 24hr for the following timings:

- 90hr stand by time and 15 minute alarm condition.
- 72hr stand by time and 30 minute alarm condition.

The power supply provides full condition and fault monitoring to the system via the FIM. The PSU830 incorporates a booster module to provide the correct voltage levels to maximise the performance of the MZX DIGITAL protocol.

Fault signals (Loss of AC, Battery charger fault, Battery fault and earth fault) are provided. Battery voltage readings are also provided to the FIM and a volt free fault o/p is also provided.

Screw terminals provide 2 x 27V outputs (one with reset control) and one 5 V output. The power supply is fitted in a steel cage with mounting points to allow any of the following boards to be mounted:

- APM800 addressable power supply monitor module.
- FB800 fuse board with 15 x 24 Vdc fused spurs.
- IOB800 input/output expansion board.
- PTM800 power terminal module.

Features

- Universal Input Voltage
- Temperature Compensated
- Full Fault Monitoring
- Can drive 4 fully loaded MZX digital loops
- Meets the requirements of EN54 part 4 amendment 2

Technical Information

Dimensions (HWD):	62 x 132 x 242 mm
Electrical	
Input Voltage:	120-240 Vac -15% /+10% 50/60Hz (auto ranging)
Input Current Rated Load:	0.8-2.2 A ^{RMS}
Output Voltages:	27.3Vdc @ +25°C
Non-reset:	27.3Vdc @ 2A 5Vdc @ 2.2A
Reset:	40Vdc @ 2.2A
Rated Output	27.3 Vdc @ 2A
Maximum Alarm Current:	
Maximum continuous load current (excluding charging):	5A for 30 minutes
Battery Requirements	
	2.5 A
	17 Ah or 38 Ah single PSU
	65 Ah dual PSU
Standby Current Consumption:	90 mA @ 24 Vdc
Battery Fault High Resistance:	Single PSU 0.6 Ohms Dual PSU 0.3 Ohms

Order Codes

557.202.210	PSU830 Power Supply Module
557.201.232	PTM800 Power Terminal Module
557.202.044	PSU 830K Power Expansion Kit
557.202.030	PSU 830 Panel Fixing Conversion Kit
557.202.031	PSU 830 Small Chassis Plate Conversion Kit