



PSU830 Power Supply

The MX PSU830 power supply module is a state-of-the-art integrated switch mode system power supply and battery charger, which can provide up to 5A external and auxiliary loop power during alarm conditions. It has a universal input allowing operation from 100 to 264Vac 50 or 60 Hz.

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 or addressable power supply monitor module APM800. The PSU830 incorporates a booster module to provide the correct voltage levels to maximise the performance of the MX DIGITAL protocol.

Fault signals (Loss of AC, Battery charger fault, Battery fault and earth fault) are provided.

Technical Specification

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

Features

- Universal Input Voltage
- Temperature Compensated
- Full Fault Monitoring
- Can drive 4 fully loaded MX digital loops
- When used with second PSU830 and MX2 8 loop expansion kit can power 8 fully loaded MX digital loops
- Same footprint and fixings as the PSB821
- Replaces PSB820 and PSM820
- Meets the requirements of EN54 part 4 amendment 2

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 5V 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 24Vdc fused spurs.
- IOB800 input/output expansion board.
- PTM800 power terminal module.

The MX2 PSU830 Dual PSU Kit is required to power the XLM800 pcb on 6 to 8 loop systems which require the extended loop power capability. It consists of the necessary cables & connectors to enable an additional PSU830 to be fitted to an MX2 controller.

Product Codes

557.202.210	PSU830 Power Supply Module
557.201.232	PTM800 Power Terminal Module
557.201.231	MX2 PSU830 Dual PSU Kit
557.202.044	PSU 830K Power Expansion Kit
557.202.030	PSM 800 - PSU 830 Panel Fixing Conversion Kit
557.202.031	PSU 830 Small Chassis Plate Conversion Kit