



Product Data Sheet

PM705C

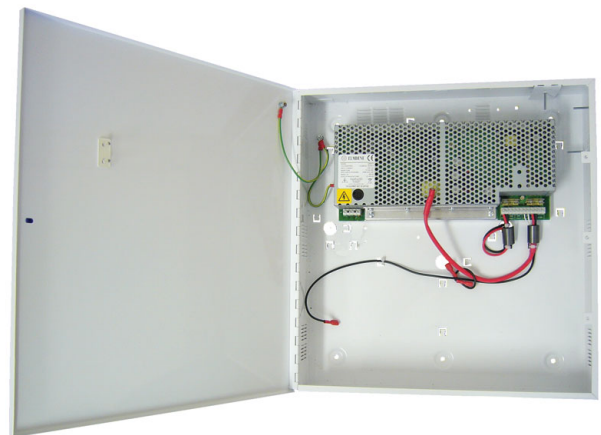
EN 54-4 approved, 24 V 5 A + 1.6 A Intelligent Power Supply

The Product

The PM705C is a fully featured EN54-4 approved power supply ideal for use in fire system applications. It features intelligent battery charging, monitoring and signaling. Regulated 27.6 VDC output will source up to 5 A into the load as well as providing up to 1.6 A for charging the standby batteries.

The load output features full electronic short circuit protection under both mains and standby battery operation. Maximum battery life is assured through continuous active battery monitoring and 3 different charge levels: bulk (fast charge), absorption and temperature compensated float. Deep discharge protection prevents premature battery failure when operating from standby for extended periods.

Inside the unit, a diagnostic led with various flash patterns, ensure accurate diagnostics when the unit is in fault.



Installer friendly

A PM705C power supply is supplied in a self-contained, wall mounting box that can also house 17 Ah batteries (not included). The battery charging circuit is energised only when a battery is correctly connected and the battery voltage is greater than 14 V.

A green and a red LED that is visible when the box is closed, indicates mains present and faults. A red diagnostics LED inside the unit, distinguish between various faults by way of various flash patterns.

A potential-free contact is used to signal faults due to output failure, battery fault, charger fault or internal fault. A second potential-free contact signals the loss of mains power.

The unit start-up automatically under battery i.e. connect battery and unit runs. There is no need for mains to be present and is very useful for commissioning on new build installations.

Standard Features

- Approved to EN54-4 & VdS certified
- Self contained box houses 17 Ah batteries
- Optional battery box houses 38 Ah batteries
- Electronic overload protection
- Deep discharge protection
- Mains & Fault LED indicators
- Fault diagnostics LED, inside of the unit
- 2 x Relay outputs: Fault & Mains Fault
- Temperature compensated charging
- Wide input voltage range
- Start-up from batteries

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Specifications

Input	
Rated range	100 - 230 VAC, 50Hz - 60Hz
Operating range	93VAC to 264 VAC, 45Hz - 65Hz
Current	2.5 A maximum for full 5 A load and 1.6 A charging
Output	
Voltage	26 - 28 VDC with mains
	18 - 26 VDC on standby
Load Current	0 - 5 A
Ripple	100 mV max
Overload	Electronic shutdown at 8 A
Standby battery	
Battery capacity (in housing)	2 x 17Ah series connected
Battery capacity (with PM700BAT)	2 x 38Ah series connected
Battery charging	Constant current 1.6 A charge to 80% in 24H
	Float charging to 100% in 48H
Deep discharge protection	Battery disconnect at 21 V
Low battery threshold	23 V nominal
Local indicators	
On the front of the unit	Green LED - power
	Red LED - fault
Inside the unit	Red LED - fault diagnostics
Signalling output	
Fault relay	100 mA @ 60 VDC N/C contacts
Mains fault relay	100 mA @ 60 VDC N/C contacts
Mechanical	
Size	400 x 420 x 80 mm
Weight	6.2 kg (excluding batteries)
Temperature	-10 to +40°C (operating)
	-20 to +80°C (storage)
Humidity	95% RH non-condensing

Ordering Information

Part No.	Description
PM705C	EN 54-4 approved, 24 V 5 A + 1.6 A Intelligent Power Supply
PM700BAT	External battery box for use with PM705C
PM700BC	Battery extension lead for PM705C
PM702C	EN 54-4 approved, 24 V 2 A + 0.8 A Intelligent Power Supply

