



PM705N

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

The Product

The PM700N Series linear power supplies offers a fully featured EN54-4 approved power supply ideal for use in fire system applications. Regulated 27.6 VDC output will source from 1 to 5 A (depending on the model) into the load as well as provide up to 1 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 with both fast bulk charging and trickle charging depending upon the battery condition.

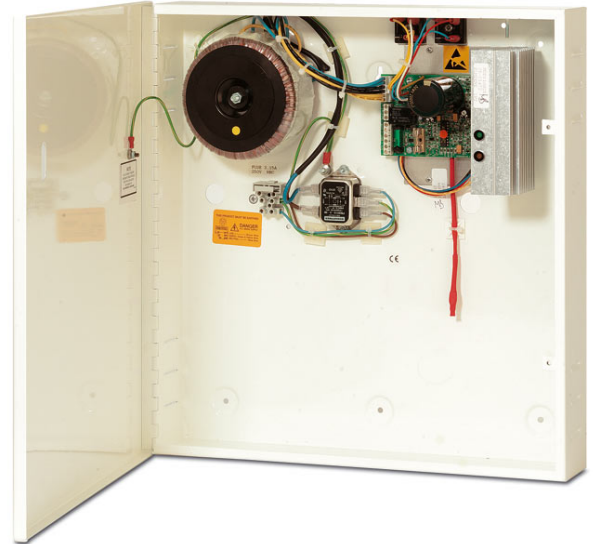
The battery charger circuit is temperature compensated ensuring maximum battery life. Deep discharge protection prevents premature battery failure when operating from standby for extended periods.

Installer friendly

A PM700N Series 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 18 V. An automatic shutdown protects the power supply until the overload is removed.

A green and an amber LED that is visible when the box is closed indicates mains present and faults.

A set of potential-free contacts is used to signal faults due to loss of mains, output failure, battery fault or charger fault. A second set of potential-free contacts signals the presence of a healthy output voltage enabling remote monitoring of healthy standby operation (even if the remote fault output is signalling a fault e.g. due to mains loss).



Standard Features

- Approved to EN54-4
- 1 to 5 A (model dependent) @ 27.6 VDC nominal regulated output
- Electronic overload protection
- Battery monitor detector:
 - Battery missing, low battery
 - Short-circuit or reverse connection
- Automatic battery switching
- Deep discharge protection
- Fault indicator LED
- Fault Relay output
- Output sense relay
- Mains indicator LED
- Temperature compensated
- Self contained box houses 17 Ah batteries
- VdS Certified

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Specifications

INPUT

Voltage	230 VAC nominal; +10%,-15%
Current	1.5 A maximum for full 5 A load

OUTPUT

Voltage	27- 28 VDC with mains 18 - 25 VDC on standby
Load Current	0 - 5 A
Ripple	100 mV max
Load regulation	5% maximum
Overload	Electronic shutdown at 7 A

STANDBY BATTERY

Battery capacity	Up to 2 x 17Ah series connected
Battery charging	Constant current 1A charge to 80% Float charging to 100%
Deep discharge protection	Battery disconnect at 20 V
Faulty battery detection	Battery disconnect at 19 V
Battery monitoring current	1 mA maximum

LOCAL INDICATORS

LED green	Mains present
LED amber flashing	Battery charger fault

SIGNALLING OUTPUTS

Remote fault communication	5 A @ 30 VDC C/O contacts
Output fail communication	0.5 A @ 30 VDC N/O contact

MECHANICAL

Size	400 x 420 x 80 mm
Weight	9 kg (excluding batteries)
Temperature	-10 to +40°C (operating) -20 to +80°C (storage)
Humidity	95% RH non-condensing

Ordering Information

Part No.	Description
PM705N	EN 54-4 approved, 24 V 5A Intelligent Power Supply
PM701N	EN 54-4 approved, 24 V 1A Intelligent Power Supply
PM702N	EN 54-4 approved, 24 V 2A Intelligent Power Supply
PM703N	EN 54-4 approved, 24 V 3A Intelligent Power Supply



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IPS-PM705N-2008-12-2 12:29:25 Released : 23.07.2008;