

EN54 Caged and Enclosure Power Supplies



EN-54 'Approved'

Supply Units can be used for any fire alarm system which specifies EN54-4 Power Supply Equipment.

Suited for almost any application, the power supply unit/battery charger has been developed using the latest surface mount technology to provide a high efficiency switch mode power supply.

The power supply units are available in fully enclosed construction providing power and fault indication, or alternatively in caged versions for mounting into existing enclosures of various sizes to suit different battery capacities.

Key Features

High efficiency switched mode power supplies

Compact 1.5A, 3.0A and 5.0A versions

Approved EN54-4

Boxed or Un-boxed

Power and Fault Indication

3 Year Warranty as Standard

Applications / Limitations

For any fire alarm system which specifies EN54-4 power supplies (e.g. BS5839 code of practice).

Compatibility

These power supply units can be used in any fire alarm installation requiring a 24Volt supply for operation.



Features

- A range of power supply equipment with power output options to suit most applications.
- Universal AC Input on the 3.0A and 5.0A versions.
- PSE and charger or PSE only options on the 3.0A and 5.0A versions
- A Serial Link option is provided on the 3.0A and 5.0A versions.
 Allows reporting of PSE status and voltages / current measurements to compatible control panel / modules.



Key Features

High Efficiency Switched Mode Power Supplies EN54 Part 4 'Approved' Boxed or Unboxed 3 Year Warranty as standard

Specification

Approvals	All Power Supply Units are approved with the requirements of BS EN54-4 1998,
	EN55022 class B emissions limits & EN60950: 2000 safety standards.
Input Supply	1.5A PSE:220-240V AC, 50/60Hz, Fuse T3.15H250
	3.0A/5.0A PSE:120-230V AC, 50/60Hz,Fuse T3.15H250
Output Voltage	Max 28.5V DC, Min 18.5V DC at minimum battery voltage of 19V with mains disconnected
Charger voltage	27.4V DC nominal at 20°C temperature compensated over the range -5°C to +45°C
Output Current	1.5A PSE: 1.0A continuous load, 0.5A battery charge
	3.0A PSE: 2.0A continuous load, 1.0A battery charge [3.0A to load if configured for PSE only]
	5.0A PSE: 3.0A continuous load, 2.0A battery charge [5.0A to load if configured for PSE only]
Dimensions Caged	1.5A 105 x 94 x38mm 250g
$(H \times W \times D)$	3A 184 x 94 x 58mm 690g
	5A 105 x 94 x 58mm 690g
Enviroment	Indoor, Dry
Fault Output	Volt-free change-over contacts rated 1A @ 30V dc
On Board Indication	Mains Fail, Charger Fail, Battery Open Circuit, Battery low & Heartbeat

Order Codes

Mxs-049: 1.5A Caged Unit Only Mxs-050: 3.0A Caged Unit Only Mxs-051: 5.0A Caged Unit Only



Also available in encloures for various battery sizes (battery not included)

Mxp-501

Models, Sales Order Parts:					
Мхр-049	:	1.5A PSE in 7Ah enclosure	SPARES:		
Mxp-050-001	:	3.0A PSE in 7Ah enclosure	Mxs-049	:	1.5A Caged Unit only
Mxp-050-002	:	3.0A PSE in 17Ah enclosure	Mxs-050	:	3.0A Caged Unit only
Mxp-051	:	5.0A PSE in 17Ah enclosure	Mxs-051	:	5.0A Caged Unit only

: 5.0A PSE in 38Ah enclosure

(Supplied with AC lead and terminal block)

Remote Temp Sensor

Applications / Limitations:

For any fire alarm system that specifies EN54-4 power supplies (e.g. BS5839 code of practice).

Compatibility:

Mxp-051/D

These power supply units can be used in fire alarm installations requiring a 24Volt supply for operation.

er Supp l y Ur	nits comply with the require				
SE :		Specification Details All Power Supply Units comply with the requirements of BS EN54-4:1998 +A2, EN55022 class B emissions limits & EN60950-1:2006 safety standards.			
0A PSE :	220-240V AC, 50/60Hz, F 200-240V AC, 50/60Hz, F				
Max 28.5V DC, Min 20.5V DC / 18.5V DC at minimum battery voltage of 21V ¹ / 19 respectively with mains disconnected. Ripple 200mV max (Note: 1V p-p including switching frequency noise).					
27.4V DC nominal at 20°C temperature compensated over the range -5°C to +40°C					
SE :	2.0A continuous load, 1.0 configured for PSE only ²] 3.0A continuous load, 2.0	A battery charge A battery charge [3.0A to load if A battery charge [5.0A to load if			
: : :	320 x 345 x 88mm 425 x 406 x 125mm 425 x 406 x 190mm	3Kg without batteries 5Kg without batteries 7Kg without batteries			
:	105 x 94 x 38mm 184 x 94 x 58mm	250g 690g			
Dry					
+40°C @ full	l load output				
95% non-condensing (maximum)					
SE :	3.3Ω 1.2Ah minimum to1.6Ω 1.2Ah minimum to	7Ah maximum 18Ah maximum			
Volt free change-over contacts rated 1A @ 30V dc (all models)					
ernal Indication Green: Power indicator, Amber: Fault indicator board indication Mains Fail, Charger Fail, Battery open circuit, Battery Low & Heartbeat					
					p Discharge All models incorporate battery deep discharge protection (19volts)
	tively with max of 200mV max of	tively with mains disconnected. 200mV max (Note: 1V p-p including swi DC nominal at 20°C temperature comperse. 1.0A continuous load, 0.5 SE : 2.0A continuous load, 1.0 configured for PSE only²] SE : 3.0A continuous load, 2.0 configured for PSE only²] : 320 x 345 x 88mm : 425 x 406 x 125mm : 425 x 406 x 190mm SE : 105 x 94 x 38mm AA PSE : 184 x 94 x 58mm AA PSE : 184 x 94 x 58mm AA PSE : 184 x 94 x 58mm AA PSE : 1.6 Ω 1.2Ah minimum to SE : 3.3 Ω 1.2Ah minimum to SE : 1.6 Ω 1.2Ah minimum to SE : 0.8 Ω 1.2Ah minimum to PSE change-over contacts rated 1A @ 30 AA POWEr Indicator, Amber: Fault indicator Fail, Charger Fail, Battery open circuit, E			

¹ The battery final discharge voltage recommended by battery manufacturer.

NOT EN54-4 Compliant. EN54-4 specifies the provision of two power sources. These should comprise a main supply (AC mains) and a stand-by supply (battery).