Axis EN

Caged Power Supplies

The Advanced 1.5A, 3.0A and 5.0A power 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.

Applications / Limitations

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



Features

- High efficiency switched mode power supplies
- Boxed or unboxed
- Approved EN54-4
- Compact 1.5A, 3.0A and 5.0A versions
- Power and fault indication
- 3 year warranty

Specification

Approvals	All power supply units are approved with the requirements of EN54-4:1998 +A1:2002 +A2:2006 , EN60950-1:2006 +A12:2011, EN61000-6-3:2007 +A1:2011, EN50130-4:2011
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 PSU: 1.0A continuous load, 0.5A battery charge 3.0A PSU: 2.0A continuous load, 1.0A battery charge [3.0A to load if configured for PSU only] 5.0A PSU: 3.0A continuous load, 2.0A battery charge [5.0A to load if configured for PSU only]
Dimensions Caged H x W x D mm	1.5A: 105 x 94 x38, 250g. 3A: 184 x 94 x 58, 690g. 5A: 105 x 94 x 58, 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 and Options

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

Compatibility

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

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN

Power Supply Units

The Advanced 1.5A, 3.0A and 5.0A power 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.

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.

Applications

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

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



In addition, a 1.5A 12Volt power supply unit is available for security and access control applications in a fire safety environment.

This can be used for communications and paging devices, and for connection to Alarm Receiving Centres.

Features

- A range of power supply equipment with power output options to suit most applications.
- 24V supply and 12V supply (1.5A only)
- Universal AC input on the 3.0A and 5.0A versions
- High efficiency switched mode power supplies
- Compact 1.5A, 3.0A and 5.0A versions

Approvals

- EN54-4:1998 +A1:2002 +A2:2006
- EN60950-1:2006 +A12:2011
- EN61000-6-3:2007 +A1:2011
- EN50130-4:2011

Specification

Input Supply	1.5A 24V PSE: 220-240V AC, 50/60Hz, fuse T3.15H250 1.5A 12V PSE: 230-240V AC, 50/60Hz, fuse T3.15H250 3.0A/5.0A 24V PSE: 120-230V AC, 50/60Hz, fuse T3.15H250
Output Voltage	Max 28.5V DC, Min 19.7V DC at minimum battery voltage of 21V[1] with mains disconnected (Model MXP-549-12V is Max 14.25V DC, Min 9.0V DC at minimum battery voltage of 10.6V with mains disconnected)
Charger Voltage	27.4V DC nominal at 20°C temperature compensated over the range -5°C to +45°C (Model MXP-549-12V is 13.7V DC nominal at 20°C)
Output Current	1.5A 24V PSU: 1.0A continuous load, 0.5A battery charge 1.5A 12V PSU: 1.15A continuous load, 0.35A battery charge 3.0A 24V PSU: 2.0A continuous load, 1.0A battery charge [3.0A to load if configured for PSU only[2]] 5.0A 24V PSU: 3.0A continuous load, 2.0A battery charge [5.0A to load if configured for PSU only[2]]
Dimensions (H x W x D)	7Ah enclosure: 246 x 263 x 85 mm 17/18Ah enclosure: 338 x 378 x 110 mm 25Ah & 38Ah enclosure: 363 x 410 x 185 mm
Environment	Indoor, Dry
Fault Output	Volt-free change-over contacts rated 1A @ 30V DC (all models)
On Board Indication	Mains Fail, Charger Fail, Battery Open Circuit, Battery Low & Heartbeat

[1] The battery final discharge voltage recommended by battery manufacturer

[2] This is NOT EN54-4 compliant. EN54-4 specifies the provision of two power sources comprising of a primary supply (AC Mains) and a stand-in supply (Battery).

Order Codes and Options

MXP-549:	1.5A 24V PSE in 7Ah enclosure
MXP-549-12V:	1.5A 12V PSE in 7Ah enclosure
MXP-550:	3.0A 24V PSE in 17/18Ah enclosure
MXP-550/D:	3.0A 24V PSE in 25Ah enclosure
MXP-551:	5.0A 24V PSE in 17/18Ah enclosure
MXP-551/D:	5.0A 24V PSE in 38Ah enclosure

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.