MxPro 5

Boxed Power Supply Units (EN54-4 and AOV)

The Advanced MXP-650 (2.5A) and MXP-651 (5.0A) power supply units can be used for any fire alarm system, including AOV systems. They are certified to EN54-4 by VdS and EN12101-10 by AFNOR, ensuring reliable and safe operation.

Suited for almost any application, the power supply unit and battery charger have been developed using the latest technology to provide a high-efficiency switch-mode power supply.

The units include intelligent battery charging technology, mains and battery monitoring including two independent volt-free outputs. In addition they also provide deep battery discharge protection in case of a prolonged mains failure.

The inclusion of LED indicators provides quick status diagnostics of the power supply.

These power supply units complement the MXP-549 1.5A



Applications

These power supply units can be used in any fire alarm installation requiring a 24volt supply for operation and which specifies EN54-4 power supplies (e.g. BS 5839 code of practice), EN12101 and AOV systems.

Ensuring reliable and safe operation, they are certified to EN54-4 and EN12101-10 by AFNOR and VdS (EN54-4 only).

NOTE: MXP-549, 1.5A PSE is available and is detailed in a separate datasheet.

Features

- A range of power supply equipment with power output options to suit most applications
- Universal AC input on the 2.5A and 5.0A versions
- Independently monitored dual outputs of 27.6Vdc
- High-efficiency switched mode power supplies
- Alternative enclosure sizes to support standby battery backup options
- Exterior status LEDs to support diagnostics
- Load-sharing, supporting either rapid charging or brief high-current peak-loads
- No output interruption during automatic switchover between mains and battery power
- Deep discharge protection disconnects battery from load when output voltage falls below 21.6V
- Self-resetting battery fuse protection

Approvals

Certified by VdS (VdS 2541) to:

- EN 54-4:1998 + A1:2002 + A2:2006 - Fire Detection and Alarm Systems
- EN12101-10:2005 + AC:2007 “Smoke and Heat Control Systems”

Specification

Input Supply	MXP-650: 195V – 265V AC, 50Hz nominal MXP-651: 195V – 265V AC, 50Hz nominal
Output Voltage	21.6V DC (Umin)* – 28.8V DC (Umax)**
Output Current	MXP-650: 2.5A continuous load (ImaxB), 1.75A battery charge (ImaxA) - based on 17Ah batteries MXP-651: 5.7A continuous load (ImaxB), 4.0A battery charge (ImaxA) - based on 24Ah batteries Note: These values will vary depending on connected batteries and EN12101-10 functionality, refer to Install Manual for further information
Inrush current	25A max at 25 °C 230V ac for 10ms
Fuse (Mains)	MXP-650: T2.0 A 20mm, 250V ac HRC (IEC 60127-2 type) MXP-651: T3.15 A 20mm 250V ac HRC (IEC 60127-2 type)
Dimensions (HxWxD)	420 x 400 x 80 mm - large enclosure, space for up to 2 x 17Ah batteries 420 x 420 x 180 mm - deep enclosure, space for 2 x 24Ah or 38Ah batteries Recommended battery manufacturers: Powersonic, Yuasa, Interlogix, Europa
Weight	Large enclosure = 5.8kg excl. batteries / 18kg incl. batteries Deep enclosure = 9.7kg excl. batteries / 28kg or 40kg incl. batteries (dependent on battery size)
Material / Colour	1.2 mm steel / RAL7035
Environment	Indoor use only - IP30
Temperature	Operational: -10°C to 40°C at 95% RH / Storage: -20 to +80°C
Fault Output	Volt-free change-over contacts (SPDT) rated 1A @ 30V DC (all models)
Status Indication	Mains, Battery Fault, PSU Fault, Diagnostic, Output 1 & Output 2

* Umin / Umax / Un = maximum / minimum

** Umax elevated by approximately +1% of Un when connecting the battery. Umax = 28.8V at all other times.

Further specification information can be found in the respective Install Manuals

Order Codes and Options

MXP-650	2.5A 24V PSE & Battery Charger Large Enclosure
MXP-650/D	2.5A 24V PSE & Battery Charger Deep Enclosure
MXP-651	5.0A 24V PSE & Battery Charger Large Enclosure
MXP-651/D	5.0A 24V PSE & Battery Charger Deep Enclosure
MXS-650	Spare 24V 2.5A EN54-4 PSU & Battery Charger (no enclosure)
MXS-651	Spare 24V 5A EN54-4 PSU & Battery Charger (no enclosure)

NOTE: MXP-549, 1.5A PSE is available and is detailed in a separate datasheet.

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

MxPro 5

Boxed Power Supply Units (1.5 Amp)

The Advanced 1.5A power supply unit 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

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)
- High efficiency switched mode power supplies
- Compact 1.5A 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 PSE: 220-240V AC, 50/60Hz, fuse T3.15H250 1.5A 12V PSE: 230-240V 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
Dimensions (H x W x D)	7Ah enclosure: 246 x 263 x 85 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

Order Codes and Options

MXP-549:	1.5A 24V PSE in 7Ah enclosure
MXP-549-12V:	1.5A 12V PSE in 7Ah enclosure

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