

POWER SUPPLY UNITS EN54 approved 24vdc power supply/battery charger units

The Haes 1.5A, 3.0A and 5.0A Power Supply Units are approved to EN54-4 by the British Standards Institute and can be used for any fire alarm system installation.

Suited for many other applications, the power supply unit/battery charger has been developed using the latest surface mount technology to provide a high efficiency switch mode power supply, housed in a robust, lockable steel cabinet.

The power supply units are available in enclosures of various sizes to suit different battery capacities up to 38Ah.

Power and fault indication are provided.



Features

Main Features

- High efficiency switch mode power supplies
- Compact 1.5, 3.0 & 5.0 amp models
- Fully compliant to EN54-4
- Power & fault indication
- Wide AC input range on the 3.0A & 5.0A models
- All models monitor the battery internal series resistance

Technical specifications

	1.5 Amp	3.0 Amp	5.0 Amp
Environment	Indoor, dry (IP30)	Indoor, dry (IP30)	Indoor, dry (IP30)
Operating Temperature	-5oC to +40oC	-5oC to +40oC	-5oC to +40oC
Relative Humidity	95%	95%	95%
Wire Gauge (max)	2.5mm ²	2.5mm ²	2.5mm ²
Input Supply (AC)	220-240vac, 47-63Hz, 0.5A	200-240vac, 47-63Hz, 0.5A	200-240vac, 47-63Hz, 0.5A
Output Voltage (DC)	Max 28.5vdc - Min 21vdc	Max 28.5vdc - Min 21vdc	Max 28.5vdc - Min 21vdc
Output Current	1.0A (min load 10mA)	2.0A (min load 10mA)	3.0A (min load 10mA)
Charging Voltage	27.4v @ 20oC nominal temperature compensated	27.4v @ 20oC nominal temperature compensated	27.4v @ 20oC nominal temperature compensated
Charging Current	0.5mA	1.0mA	2.0mA
Ripple	200mV (1v p-p switching noise)	200mV (1v p-p switching noise)	200mV (1v p-p switching noise)
Fuse (AC Mains TB)	T3.15AH250V	T3.15AH250V	T3.15AH250V
Battery Size	7Ah	7Ah - 24Ah	7Ah - 38Ah
Battery Internal Resistance	3.3Ω max	1.6Ω max	0.8Ω max
Deep Discharge Cut-Off	19v	19v	19v
Fault Relay	30v ac/dc, 1.0A	30v ac/dc, 1.0A	30v ac/dc, 1.0A
Standard (Harmonised)	EN54-4:1997 + A1:2002 + A2:2006	EN54-4:1997 + A1:2002 + A2:2006	EN54-4:1997 + A1:2002 + A2:2006
External Indication	Green: Power Indication Amber: Fault Indication	Green: Power Indication Amber: Fault Indication	Green: Power Indication Amber: Fault Indication
On Board Indication	Mains Fail Charger Fail Battery Open Circuit Battery Low Heart Beat	Mains Fail Charger Fail Battery Open Circuit Battery Low Heart Beat	Mains Fail Charger Fail Battery Open Circuit Battery Low Heart Beat

Models	Size	Battery Capacity	Dimensions
PSAS-15EN54	1.5 amp	7Ah	320mm H x 345mm W x 85mm D
PSAS-30EN54	3.0 amp	7Ah	320mm H x 345mm W x 85mm D
PSAM-30EN54	3.0 amp	18Ah	425mm H x 406mm W x 125mm D
PSAM-50EN54	5.0 amp	18Ah	425mm H x 406mm W x 125mm D
PSAL-50EN54	5.0 amp	38Ah	425mm H x 406mm W x 190mm D