

EN54-4 Power Supplies



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 at a glance

- High efficiency switched mode power supplies
- Compact 1.5A, 3.0A and 5.0A versions
- Fully compliant to EN54-4
- Power and fault indication
- 3 year warranty as standard
- A range of power supply equipment with power output options to suit most applications.
- Wide AC input range on the 3.0A and 5.0A versions
- All models monitor the battery internal series resistance.



KM 69695

Approved to:
EN 54-4: 1997 + A1: 2002 + A2: 2006

Models	Description
PSAS-15EN54	24vdc 1.5 Amp Space For 7Ah Batteries
PSAS-30EN54	24vdc 3.0 Amp Space For 7Ah Batteries
PSAM-30EN54	24vdc 3.0 Amp Space For 18Ah Batteries
PSAM-50EN54	24vdc 5.0 Amp Space For 18Ah Batteries
PSAL-50EN54	24vdc 5.0 Amp Space For 38Ah Batteries.

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Compatibility

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

Approvals

All Power Supply Units comply with the requirements of BS EN54-4:1988 +A2, EN55022 class B emissions limits & EN60950-1:2006 safety standards.

Input Supply

1.5A : 220-240vac, 50/60Hz,
Fuse T3.15H250

3.0/5.0A : 200-240vac, 50/60Hz,
Fuse T3.15H250

Output Voltage

Max 28.5vdc, Min 20.5vdc / 18.5vdc at minimum battery voltage of 21v / 19v respectively, with mains disconnected.

Ripple 200mV max (Note: 1v p-p including frequency noise).

Charger Voltage

27.4vdc nominal at 20°C temperature compensated over the range -5°C to +40°C

Output Current

1.5A : 1.0A continuous load, 0.5A battery charge.

3.0A : 2.0A continuous load, 1.0A battery charge.

5.0A : 3.0A continuous load, 2.0A battery charge.

Dimensions Enclosed (H x W x D)

Small : 320 x 345 x 88mm (7Ah)
Medium : 425 x 406 x 125mm (18Ah)
Large : 425 x 406 x 190mm (38Ah)

Environment

Indoor, dry.

Operating Temperature

-5°C to +40°C @ full load output

Relative Humidity

95% non-condensing (maximum)

Standby Batteries And Internal Resistance

2 x 12v SLA (Yuasa recommended)

1.5A : 3.3Ω 1.2Ah min to 7Ah max
3.0A : 1.6Ω 1.2Ah min to 18Ah max
5.0A : 0.8Ω 1.2Ah min to 38Ah max

Fault Output

VFCO contacts rated at 1A @ 30vdc (all models)

External Indication

Green: Power Indicator, Amber: Fault Indicator

On Board Indication

Mains Fail, Charger Fail, Battery Open CCT, Battery Low & Heartbeat

Deep Discharge

All models incorporate battery deep discharge protection (19 volts)



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