PSU

EN54-4 Approved Switched Mode Power Supply/ Charger



s407 Features

- Complies with EN54-4
- Fully enclosed construction
- Small & lightweight
- O True 2.5 Amp continuous output
- Comprehensive fault monitoring
- O Temperature compensated charger
- O Wide input supply voltage
- Low battery shut off to prevent deep discharge of battery

5406 Features

- Complies with EN54-4
- Fully enclosed construction
- Small & lightweight
- True 5.25 Amp continuous output
- Comprehensive fault monitoring
- O Microprocessor controlled
- O Temperature compensated charger
- Wide input supply voltage
- Low battery shut off to prevent deep discharge of battery

Product Overview

- O The S407/S406 power supply/battery charger has been developed using switched mode technology to produce an efficient and lightweight power unit for a host of fire alarm applications.
- Suited to almost any application, the S407/S406 is designed to be a universal power source which will reduce spares stock holding and increase serviceability of systems.
- O The comprehensive monitoring features of the S407/S406 include true battery present detection, low battery voltage warning, battery overcharge warning, high battery impedance monitoring and low battery shut off.
- O These features combined with the temperature compensated charger output will increase the service life of sealed lead acid batteries.





Formula

Battery Calculation

BS 5839-1:2002

= $1.25(T_1I_1 + DI_2/2)$ C min

Where:

C min	=	Minimum capacity of the battery when new at the
		20 hour discharge rate and at 20 $^\circ\text{C}$ in ampere-hours;
т,	=	Total battery stand by period in hours;
ц.	=	Total battery stand by load in amperes;
l ₂	=	Total battery alarm load in amperes;
D	=	a de-rating factor. (1.75)

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S407 Technical

Construction
Finish
Colour
Size
Weight
Supply voltage
Output voltage
Total output current
Battery charge current
Load current
Fault outputs rating
Mains fuse
Load fuses
Mains failed warning
Battery disconnected warning
Battery low warning
Battery overcharge warning
Earth fault warning
Common fault output
Operating temperature

Epoxy powder coated Black _ _ 226mm x 120mm x 55mm 0.9Kg 230V AC (+10%/-15%) 24V DC 3.5 Amps (continuous) 1.00 Amps max.

Aluminium base - sheet steel cover

- 2.5 Amps (with flat battery)
- 50mA max.
- 3 Amp 20mm HRC
 - 3 Amp (self resetting)
- Switched -ve output
- Switched -ve output
- Switched -ve output
- Switched -ve output
- Switched -ve output _
 - Switched -ve output -5 to +50 deg. C

S406 Technical

Construction
Finish
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Supply voltage
Output voltage
Total output current
Battery charge current
Load current
Fault outputs rating
Mains fuse
Load fuses
Mains failed warning
Battery disconnected warning
Battery low warning
Battery overcharge warning
Earth fault warning
Common fault output
Operating temperature

- Aluminium base sheet steel cover
- Epoxy powder coated
- _ Black
- 226mm x 120mm x 55mm
- 0.9Kg
- 230V AC (+10%/-15%)
- 24V DC _
- 5.25 Amps (continuous)
- 1.25 Amps max.
- 4.0 Amps (with flat battery)
- 50mA max.
- _ 3 Amp 20mm HRC
 - 5 Amp (self resetting)
- Switched -ve output -
 - Switched -ve output
 - Switched -ve output
 - Switched -ve output
 - Switched -ve output
- Switched -ve output _
- _ -5 to +50 deg. C