

POWER SUPPLY UNITS

EN54-4 Approved Switched Mode Power Supply/ Charger

Features K407

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

Features K406

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



Description

The K407/K406 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 K407/K406 is designed to be a universal power source which will reduce spares stock holding and increase serviceability of systems.

The comprehensive monitoring features of the K407/ K406 include true battery present detection, low battery voltage warning, battery overcharge warning, high battery impedance monitoring and low battery shut off.

These features combined with the temperature compensated charger output will increase the service life of sealed lead acid batteries.

Form	nula
Battery (BS 5839	Calculation -1:2002
C min	= $1.25 (T_1 I_1 + D I_2 / 2)$
Where:	
C min	 Minimum capacity of the battery when new at the 20 hour discharge rate and at 20 °C in ampere-hours;
T,	 Total battery stand by period in hours;
I,	 Total battery stand by load in amperes;
I,	 Total battery alarm load in amperes;
Ď	= a de-rating factor. (1.75)



Specification K407		
Construction	Aluminium base - sheet steel cover	
Finish	Epoxy powder coated	
Colour	Black	
Size	226mm x 120mm x 55mm	
Weight	0.9Kg	
Supply voltage	230V AC (+10%/-15%)	
Output voltage	24V DC	
Total output current	3.5 Amps (continuous)	
Battery charge current	1.00 Amps max.	
Load current	2.5 Amps (with flat battery)	
Fault outputs rating	50mA max.	
Mains fuse	3 Amp 20mm HRC	
Load fuses	3 Amp (self resetting)	
Mains failed warning	Switched -ve output	
Battery disconnected warning	Switched -ve output	
Battery low warning	Switched -ve output	
Battery overcharge warning	Switched -ve output	
Earth fault warning	Switched -ve output	
Common fault output	Switched -ve output	
Operating temperature	-5 to +50 deg. C	



Specification K406		
Construction	Aluminium base - sheet steel cover	
Finish	Epoxy powder coated	
Colour	Black	
Size	226mm x 120mm x 55mm	
Weight	0.9Kg	
Supply voltage	230V AC (+10%/-15%)	
Output voltage	24V DC	
Total output current	5.25 Amps (continuous)	
Battery charge current	1.25 Amps max.	
Load current	4.0 Amps (with flat battery)	
Fault outputs rating	50mA max.	
Mains fuse	3 Amp 20mm HRC	
Load fuses	5 Amp (self resetting)	
Mains failed warning	Switched -ve output	
Battery disconnected warning	Switched -ve output	
Battery low warning	Switched -ve output	
Battery overcharge warning	Switched -ve output	
Earth fault warning	Switched -ve output	
Common fault output	Switched -ve output	
Operating temperature	-5 to +50 deg. C	



Datasheet DS19/5/22 Rev.02

For further information visit www.kentec.co.uk Kentec Electronics Ltd. reserves the right to alter the specification of its products from time to time without notice. Although every effort has been made to ensure the accuracy of the information contained in this document it is not warranted or represented by Kentec Electronics Ltd. to be a complete and up-to-date description.