

PSU

EN54-4 Approved Fire Alarm Power Supplies



BS-EN54-4
KM 73505

Features

- 2.5A and 5.25A versions
- Chassis only or enclosure mounted with battery space
- 110V or 230V input
- Regulated, true 24V output
- Intelligent battery charging and temperature compensation
- House up to 26Ah batteries
- Status indicators for monitored faults
- Dual output option for powering fire alarm control panels remotely
- Chassis versions have same mounting points
- Fully enclosed and robust construction

Product Overview

- Syncro Power fully certified to EN54-4 power supplies provide a stable and fully regulated, true 24V output for fire alarm system applications under all power conditions. The unique regulation techniques ensure that even when running on standby batteries, a stable 24V supply is available to all parts of the system ensuring that all 24V powered devices connected are supplied with optimum power.
- The powerful onboard microcontroller ensures that all battery types are conditioned with optimum, temperature compensated charging algorithms to maximise battery life and maintain batteries in top condition.
- Syncro Power EN54-4 compliant power supplies can be fitted with an optional dual fused output monitoring module to ensure compliance with European standards when supplying fire control panels with an external power supply.
- Enclosed units are available to match both Sigma and Syncro equipment ranges and all are finished with matching livery and provide power on and power fault indications.
- Optional dual output path (KD) variant available, to provide two independent supply paths between the power supply unit and the control panel in accordance with EN54-4 clause 6.4 and BS5839 pt1, clause 12.2.2.m requirements.



Boxed Power Supply
to match Sigma CP
and Syncro AS Style



Boxed Power Supply
to match Syncro Style

Panels

Product Code	PSU	Batteries	Size (mm)	
K25250M2	2.5 Amp	up to 7Ah	365 x 310 x 90	
K25250M3	2.5 Amp	up to 12Ah	385 x 520 x 110	
K2525003	2.5 Amp	up to 12Ah	500 x 355 x 117	
K25400M3	5.25 Amp	up to 17Ah	385 x 520 x 110	
K2540003	5.25 Amp	up to 17Ah	500 x 355 x 117	
K2540015	5.25 Amp	up to 26Ah	500 x 460 x 190	
KD25250M2	2.5 Amp	up to 7Ah	365 x 310 x 90	With Dual Output Board
KD25250M3	2.5 Amp	up to 12Ah	385 x 520 x 110	With Dual Output Board
KD2525003	2.5 Amp	up to 12Ah	500 x 355 x 117	With Dual Output Board
KD25400M3	5.25 Amp	up to 17Ah	385 x 520 x 110	With Dual Output Board
KD2540003	5.25 Amp	up to 17Ah	500 x 355 x 117	With Dual Output Board
KD2540015	5.25 Amp	up to 26Ah	500 x 460 x 117	With Dual Output Board

Technical

Construction	- 1.2 mild sheet steel
IP Rating	- IP30
Finish	- Epoxy powder coated
colour - lid & box	- BS 00 A 05 grey - fine texture
Weight	- 6kg
Mains input supply voltage	- 230V AC 50/60Hz or 110V AC 50/60Hz (link selectable)
Mains supply fuse	- 250V, 3A, SB, 5mm X 20mm
Load output voltage	- 19- 30V DC +/- 1%
Maximum load current	- 5.25 Amps continuous with maximum battery charge output of 1.25A
- K25400 models	
Maximum load current	- 2.5 Amps continuous with maximum battery charge output of 1.0A
- K25250 models	
Maximum ripple	- 200 milliamps
Load fuse	- 5 Amp, self resetting Polyfuse
Maximum current draw from batteries	- 5 Amps
Battery charge output voltage	- 27.4V DC nominal at 20 degrees C (temperature compensated from -5 to 45 degrees C)
Battery charge current	- Two stage, constant voltage. 1.25 Amps maximum
Deep discharge prevention	- Battery disconnects at 19V
Compatible batteries	- Yuasa - NP7-12, NP12-12, NP17-12, NP24-12 Powersonic - PS-12170, PS-12120, PS-12170, PS12260
Operating temperature	- -5 to 45 degrees C
Common fault output	- Normally energised volt free changeover relay - 30V DC 1 Amp
Battery disconnected output	- Open collector 50 milliamps
Battery low output	- Open collector 50 milliamps
Charger fault output	- Open collector 50 milliamps
Earth fault output	- Open collector 50 milliamps
Mains failed output	- Open collector 50 milliamps
Fault output connector	- 14 way DIL header 0.1" spacing
Mains connector	- 3 way terminal, 7.62mm spacing, 2.5mm maximum cable size
Load connector	- 2 way terminal, 7.62mm spacing, 2.5mm maximum cable size
Battery connector	- 2 way terminal, 7.62mm spacing, 2.5mm maximum cable size
Front panel Power On indicator	- Green LED
Front panel Fault indicator	- Yellow LED
Power output	- Dual 24V supply terminals with EN54-4 clause 6.4 interface (when fitted with optional dual fused output monitoring module)