



BS-EN54-4
KM 73505

POWER SUPPLY UNITS

EN54-4 Approved Fire Alarm Power Supplies

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



Description

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.

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
KD25250M3*	2.5 Amp	up to 12Ah	385 x 520 x 110
KD2525003*	2.5 Amp	up to 12Ah	500 x 355 x 117
KD25400M3*	5.25 Amp	up to 17Ah	385 x 520 x 110
KD2540003*	5.25 Amp	up to 17Ah	500 x 355 x 117
KD2540015*	5.25 Amp	up to 26Ah	500 x 460 x 117

*With Dual Output Board

Specification

Construction	1.2mm mild 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 – K25400 models	5.25 Amps continuous with maximum battery charge output of 1.25A
Maximum load current – K25250 models	2.5 Amps continuous with maximum battery charge output of 1.0A
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-1270, 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)