

# 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)	
<b>K25250M2</b>	2.5 Amp	up to 7Ah	365 x 310 x 90	
<b>K25250M3</b>	2.5 Amp	up to 12Ah	385 x 520 x 110	
<b>K2525003</b>	2.5 Amp	up to 12Ah	500 x 355 x 117	
<b>K25400M3</b>	5.25 Amp	up to 17Ah	385 x 520 x 110	
<b>K2540003</b>	5.25 Amp	up to 17Ah	500 x 355 x 117	
<b>K2540015</b>	5.25 Amp	up to 26Ah	500 x 460 x 190	
<b>KD25250M2</b>	2.5 Amp	up to 7Ah	365 x 310 x 90	With Dual Output Board
<b>KD25250M3</b>	2.5 Amp	up to 12Ah	385 x 520 x 110	With Dual Output Board
<b>KD2525003</b>	2.5 Amp	up to 12Ah	500 x 355 x 117	With Dual Output Board
<b>KD25400M3</b>	5.25 Amp	up to 17Ah	385 x 520 x 110	With Dual Output Board
<b>KD2540003</b>	5.25 Amp	up to 17Ah	500 x 355 x 117	With Dual Output Board
<b>KD2540015</b>	5.25 Amp	up to 26Ah	500 x 460 x 117	With Dual Output Board

## Technical

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