

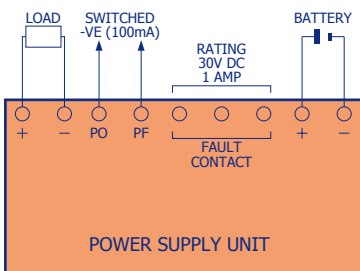
PSU

Power Supplies & Battery Chargers

A vital area in maintaining a system's integrity is the ability to function properly during extended failure of the primary or mains supply. To this end a new improved range of enclosed and chassis mounted power supplies are available to suit a wide range of applications.

Features

- Robust, fully welded construction
- Wide range of charging capacities
- Choice of flush or surface mounting units
- Choice of enclosed or chassis mounted units



Boxed Power Supply To match Sigma CP Style

Boxed Power Supply To match Syncro Style



BS EN54-4
KM 73505

Product Overview

- Full monitoring of mains failure, battery disconnection and total power failure is provided. Four and ten amp units have additional monitoring of earth fault and low battery voltage conditions.
- Enclosed units are mounted in high quality, fully welded boxes with a key lock and a generous battery space and are available as flush or surface mounting.
- Standard finishes are two-tone grey or all light grey, however other colours and finishes are available to special order.
- Chassis mounted versions are easily secured by four fixings through the integral heatsink/mounting plate. The 750 mA version is complete with DIN rail mounting kit. Push on battery leads are supplied with each unit, complete with a linking jumper for two, twelve volt batteries.
- N.B. Life expectancy of valve regulated lead acid (the VRLA) batteries is approximately 5 years from the date of manufacture NOT the date of installation.

Formula

Battery Calculation
BS 5839-1:2002

$$C_{min} = 1.25 (T_1 I_1 + D I_2 / 2)$$

Where:

C_{min} = Minimum capacity of the battery when new at the 20 hour discharge rate and at 20 °C in ampere-hours;

T₁ = Total battery standby period in hours;

I₁ = Total battery standby load in amperes;

I₂ = Total battery alarm load in amperes;

D = a de-rating factor. (1.75)



Specifications

DS05.11.2008



Technical

Construction	-	1.2mm fully welded sheet steel
Finish	-	epoxy powder coat
Colour	-	BS 00 A 05 (grey texture) - lid & box
Supply voltage	-	230V AC (+10%/-15%) (other voltages available on request)
Load voltage	-	28V (Approx.)
Battery voltage	-	27.6V DC
Operating temperature	-	-10°C to +50°C
Output ripple/noise	-	0.5V at full load
Fault output	-	switched -VE and volt free contacts

Boxed Power Supplies To match Syncro Style & Size

Equipment

Product Code	Max. Rating	Max. Continuous Rating	Battery Size (Max.)	Standard Max.Charging (in 24 hrs)	Weight (approx Kg.)	Size (mm)
K1425003	2.5A	1.25A	15Ah	12.0Ah	8.0	500 x 355 x 108
* K1540003	4.0A	4.0A	15Ah	15.0Ah	9.3	500 x 355 x 108
* K1540011	4.0A	4.0A	24Ah	15.0Ah	10.4	500 x 355 x 145
* K1540013	4.0A	4.0A	38Ah	15.0Ah	12.1	500 x 355 x 205
K1410011	10.0A	5.0A	24Ah	24.0Ah	15.0	500 x 355 x 145
K1410013	10.0A	5.0A	38Ah	24.0Ah	15.5	500 x 355 x 205

* Denotes EN54-4 Approved versions

Boxed Power Supplies To match Sigma CP/XT Style & Size

Equipment

Product Code	Max. Rating	Max. Continuous Rating	Battery Size (Max.)	Standard Max.Charging (in 24 hrs)	Weight (approx Kg.)	Size (mm)
K14750M2	750mA	350mA	7Ah	2.6Ah	6.0	385 x 310 x 90
K14150M2	1.25A	0.6A	7Ah	4.0Ah	7.5	385 x 310 x 90
K15250M2	2.5A	1.25A	7Ah	12.0Ah	7.0	385 x 310 x 90
K15250M3	2.5A	1.25A	17Ah	12.0Ah	8.5	385 x 520 x 110
* K15400M2	4.0A	4.0A	7Ah	15.0Ah	7.0	385 x 310 x 90
* K15400M3	4.0A	4.0A	17Ah	15.0Ah	9.0	385 x 520 x 110
* K15400D3	4.0A	4.0A	38Ah	15.0Ah	11.0	385 x 520 x 200
K14100D3	10.0A	5.0A	38Ah	24.0Ah	15.0	385 x 520 x 200

* Denotes EN54-4 Approved versions

Chassis Mounted Power Supplies

Equipment

Product Code	Max. Rating	Max. Continuous Rating	Standard Max.Charging (in 24 hrs)	Weight (approx Kg.)	Size (mm)
S307	750mA	325mA	2.6Ah	1.0	155 x 72 x 52
S405	2.5A	1.25A	12.0Ah	1.5	176 x 78 x 56
ENS400	4.0A	4.0A	15.0Ah	2.0	192 x 110 x 60
S299	10.0A	5.0A	24.0Ah	9.0	367 x 122 x 105



Certificate No. FM 32987
BS EN ISO 9001: 2000



Certificate No. 360
BS EN ISO 9001: 2000

The manufacturer reserves the right to amend specifications without prior notice