24V 5A 5 Series Encased Power Supply PCB ONLY

Part No. **BF562-5/E**



Overview

Apowerful switch mode/digital hybrid PSU that can be customised to suit your exact requirements - seeMore Informationtab for details.

Plasticcoveron PSU PCB guards against touching live parts (to VDE 0100-410).

Includes the same electronics as our BF562-5 LPCB/VDS certified EN54-4/A2 boxed 24V 5A PSU.

Metal base platefacilitatesstraightforwardmountinginside third-party OEMenclosures.

Includes a single-pole volt-free changeover relay that switches for any fault condition.

Includes afault type& hazardous voltages present LED.

Two selectable battery charge currents.

Battery fault impedance limits can be optimised to suit load current (helps extend battery life)*.

Mains fail simulation mode.

Improved on-board temperature sensor with optional remote sensor.

Electronic functions comply with EN50131-6 grades 1-4 for security applications.

More Information

PSU CUSTOMISATION

The BF562-5/E can be optionally customised to suit your exact requirements using a BF423 configurator and PC. Configurable parameters includeFloat voltage temperature compensation; Battery charge rate (mA); Battery impedance; Input/Outputsettings.

PSU STATUS LED(located on the PSU PCB)

1 flash = Mains Failure.

2 flashes = Battery Voltage Low.

3 flashes = Battery Voltage Critical.

4 flashes = Charger Failure.

5 flashes = Charger OK (Battery is either actively charging, or in float charge).

A PROUD BRITISH MANUFACTURER

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6 flashes = No Batteries Fitted (indicating DIP Switch 4 position).

7 flashes = Battery Resistance Fault (Level set by DIP Switch 2 position).

8flashes= Output Over Voltage.

BATTERY FAULT MONITORING

The BF562-5/E monitors battery resistance to the requirements of EN54-4/A2. The fault threshold is directly related to the ability of the battery to deliver the rated current to the load. For example, batteries stored uncharged for long periods, during shipment and/or distribution, degrade leading to increased internal resistance. If a degraded battery is fitted, a fault will be shown by the PSU as mandated by EN54-4/A2.

DATA PORT

Data on the BF562-5/E's status can be extracted from the PSU'sbi-directional data port. The data availableincludes thermistor measurements; battery terminal voltage; system voltage at load terminals; battery charge current; load current; battery impedanceandASCII text string status messages. Extracting this data requires additional equipment and permissions - contact C-TEC for details.

Technical Specifications

Approvals/certifications	Includes the same electronics as our EN54-4/A2 certified BF562-5 PSU
Compatibility	• ** Full compliance with all relevant standards must be checked by the responsible person with the caged PSU installed in a suitable enclosure ***
Application/operation	An encased Mains to regulated DC switch-mode/digital hybrid power supply providing 5A @ 24V DC. It includes a single pole volt-free changeover relay that switches for any fault condition. User customisable via a BF423 Configurator.
Mains supply	230V 50/60Hz.
Mains rated current	1.3A r.m.s.
Total output current limited to	5A (Max. continuous output current).
Output	I max.a: 4.6A or 4A selectable. A load greater than I max.a will temporarily disable batt. charging. I.max.b: 5A, charging turned off via CONN6. Output is also customisable via a BF423 Configurator*.
Battery charge capacity	2.5Ah up to 17Ah (battery charged to 80% capacity in 24hrs). Output is customisable via a BF423 Configurator to suit different manufacturers' batteries*.
Max battery size and type	Up to 17Ah VRLA dependent on the size of the enclosure the BF562-5/E is mounted in.
Indicators	Supply Present (Green); General Fault (Amber); Auxiliary Fault (Amber); Hazardous Voltages Present (Red).
Connections	Mains Input (CONN1); Supply Output (CONN3); Battery Input (CONN3); Fault Relay (CONN4); Charge Off Input (CONN5). Battery Charge Current Link (PLK1); Battery Monitoring On/Off Link (PLK2); High Temp. Output (PL2).
Expansion connections	A remote thermistor can be connected via PL3 terminals.
Product dimensions (mm)	143mm H x 173mm W x 66mm D.
Construction & finish	Zintec base, polycarbonate cover.
IP Rating	Dependent on mounting enclosure.
Weight	665g (without batteries).
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.
Notes	• Parameters configurable via a BF423 configurator are: Float voltage temp. compensation; Batt. charge rate (mA); Batt. impedance; Input/Output settings.

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