



24V 3A EN54-4 Switch Mode PSU

Accessories – Power Supplies

Part No. BF562-3

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Product Details

TYPICAL USES

Ideal for powering beam detectors, auto-dial communicators, aspirating smoke detectors, auto-open vent systems, auxiliary sounder systems or any other device performing a mandatory function of a fire alarm system.

PSU CUSTOMISATION

The BF562-3 can be customised to suit your exact requirements using a BF423 configurator & PC. Configurable parameters include float voltage, temperature compensation, battery charge rate (mA), battery impedance and configurable input/output settings. *It is important to note changing the PSU's parameters in this way is outside the scope of EN54-4 and any changes must be tested by the responsible person for correct operation.

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).
- 6 flashes = No Batteries Fitted (indicating DIP Switch 4 position).
- 7 flashes = Battery Resistance Fault (Level set by DIP Switch 2 position).
- 8 flashes = Output Over Voltage.

BATTERY FAULT MONITORING

The BF562-3 complies with EN54-4/A2 and therefore must monitor battery resistance. 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 BF562-3's status can be extracted from the PSU's bi-directional data port. The data available includes thermistor measurements; battery terminal voltage; system voltage at load terminals; battery charge current; load current; battery impedance and ASCII text string status messages. Extracting this data requires additional equipment and permissions.



Key Features

- Certified to EN54-4/A2 by the LPCB and Vds.
- A powerful 24V 3A switch mode/digital hybrid PSU that can be customised* to suit your exact requirements – see Product Details tab for details.
- Plastic cover on PSU PCB guards against touching live parts.
- Includes a single-pole voltage free changeover relay that switches for any fault condition.
- Multiple indicators – supply present, general fault, fault type & aux. equipment fault.
- 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.
- BF562-3/E encased version also available.


Illumino Ignis Ltd™

LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

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Technical Specifications

Approvals/certifications	Certified to EN54-4/A2 by the LPCB & Vds.
Application/operation	A boxed Mains to regulated DC power supply providing 3A @ 24V DC. Fully compliant with EN54-4, it includes a single pole volt-free changeover relay that switches for any fault condition.
Mains supply	230V 50/60Hz.
Mains rated current	0.8A r.m.s.
Total output current limited to	3A (Max. output current).
Output	I max.a: 2.6A or 2A selectable. A load greater than I max.a will temporarily reduce batt.charging. I max.b: 3 A, charging turned off via CONN6. Output is also customisable via a BF423 Configurator*.
Battery charge capacity	2 Ah to 17 Ah. Output is customisable via a BF423 Configurator to suit different manufacturers' batteries*.
Max battery size and type	2.5 Ah to 17 Ah. Approved 12V VRLA Battery: Yucel Y Series 7Ah – 17Ah.
Indicators	3 external – Supply Present (Green); General Fault (Amber); Auxiliary Fault (Amber) and 2 internal – wHazardous Voltages Present (Red) and PSU Status (Amber).
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)	404 W x 404 H x 110 D mm.
Construction & finish	Metal lid and base; RAL7035 textured
IP Rating	IP30 (designed for indoor use only).
Weight	5kg (without batteries).
Operating conditions/temperature	-5°C to +40°C. Max relative humidity: 95%.

- Parameters configurable via a BF423 configurator are: Float voltage temp. compensation; Batt. charge rate (mA); Batt. impedance; Configurable Input/Output settings. Note: Changing the PSU's parameters in this way is outside the scope of EN54-4/A2.



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PSU PCB Layout and Mains connection

