

12V 2A 5 Series EN54-4 Boxed PSU. 1 x 12V 7Ah Max (3.2Ah with STU plate)

Part No. **BF560-12**



Overview

Certified to EN54-4/A2 by the LPCB &VdS (AFNOR pending).

A powerful switch mode/digital hybrid PSU that can be customised to suit your exact requirements - see More Information tab for details.

Plastic cover on PSU PCB guards against touching live parts.

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

 $\hbox{Multiple indicators - supply present, general fault, fault type \& aux. equipment fault.}$

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.

Ideal for connecting to 12V security STUs to provide BS5839-1 compliant remote monitoring facilities.

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

BF560-12/E EncasedPCB version also available

More Information

PSU CUSTOMISATION

The BF560-12can 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 configurableInput/Output settings. 'It is important to note changing the PSU's parameters in this way isoutside the scope of EN54-4 and any changes mustbe tested by the responsible person for correctoperation.

12V SECURITY STUUSED PURELY FOR FIRE ALARM SIGNALLING



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The BF560-12 can help combat an area of fire alarm system non-compliance that is often overlooked - their connection to remote monitoring centres via 12V security STUs or autodiallers. Firesystems that require such monitoring are typically connected to 12V security STUs. Unfortunately, PSUs used to power these STUs normally only offer 12 hours standby, are notconnected to a dedicated mains supply and do not include the features demanded by EN54-4 (such as battery impedance monitoring, temperature compensated charging, CPR compliance, etc). TheBF560-12 solves these problems by allowing the use of 12V STUs with a cost-effective EN54-4 compliant PSU thereby facilitating compliance with BS5839-1 (or European equivalents). Tofurther assist this application, an optional STU mounting plate is available for inside the BF560-12 (order code BF360SP).

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).

8flashes= Output Over Voltage.

BATTERY FAULT MONITORING

The BF560-12 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.

EN50131-6 (POWER SUPPLIES FOR INTRUSION & HOLD UP ALARMS) CAPABILITY

The power supply inside the BF560-12 has all the electrical functions required to comply with EN50131-6 Grade 4(which includes Grades 3, 2 and 1). However, the BF560-12's enclosure is not designed to comply with the standard's requirements to trigger analarm if someone tries to force the box open. OEM security companies interested in utilising the BF560-12's PSUPCB inside their own EN50131-6 compliant tamper-resistant enclosures should contact our marketing departmentfor further detailson costs and approvals.

DATA PORT

Data on the BF560-12's status can be extracted from the PSU'sbi-directional data port. The data available includes 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 -call C-TEC for details.

Technical Specifications

Approvals/certifications Certified to EN54-4/A2 by the LPCB & VdS. AFNOR approval pending. The PSU has also been tested

to comply electrically/environmentally with EN50131-6: Power Supplies for Intrusion and hold-up

systems (Type A, up to Grade 4, Environmental Class II)

A boxed Mains to regulated DC switch-mode/digital hybrid power supply providing 2A @ 12V DC. It Application/operation

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

customisable via a BF423 Configurator.

230V 50/60Hz. Mains supply 300mA r.m.s. Mains rated current

2A (Max. output current). Total output current limited to

I max.a: 1.8A or 1.3A selectable. (1.8A not approved to EN54-4/A2). A load greater than I max.a will Output

temporarily reduce batt. charging. I.max.b: 2A, charging turned off via CONN6. Output is also

customisable via a BF423 Configurator*.

Battery charge capacity 2Ah up to 12Ah (battery charged to 80% capacity in 24 hrs). Max. batt. size/type by cabinet size is

3.2Ah VRLA (with STU plate) or 7Ah (without STU plate). Output is customisable via a BF423

Configurator to suit different manufacturers' batteries*.

Max battery size and type 1 x 12V 3.2Ah VRLA (with STU plate fitted); 1 x 12V 7Ah VRLA (without STU plate fitted).

3 external - Supply Present (Green); General Fault (Amber); Auxiliary Fault (Amber) and 2 internal -Indicators

Hazardous Voltages Present (Red) and PSU Status (Amber).



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Mains Input (CONN1); Supply Output (CONN5); Battery Input (CONN5); Fault Relay (CONN4); BF423 Connections

Configurator Connector* (PL2); Remote Thermistor Connector (PL3); Batt. Charger Inhibit &

Input/Output (CONN6).

A remote thermistor can be connected via PL3 terminals. Expansion connections

380mm W x 235mm H x 96mm D. Product dimensions (mm) Construction & finish PVC lid and base; RAL7035 textured.

IP30 (to EN 60529). Designed for indoor use only. IP Rating

Weight 1.55kg (without batteries).

-5°C to +40°C. Max relative humidity: 95%. Operating conditions/temperature

> $\bullet \ {\sf Parameters\ configurable\ via\ a\ BF423\ configurator\ are:\ Float\ voltage\ temp.\ compensation;\ Batt.}$ 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.



Notes

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