



VOICE ALARM POWER SUPPLIES

VIGIL 2



Both units in the range employ 'switch mode' techniques to improve efficiency and reduce unwanted heat dissipation and weight. There are currently two models in the range:

BVSMP • BVSMPLT

FEATURES:

- The BVSMP has two individually protected outputs at 24V; the BVSMPLT has one.
- Each BVSMP will drive either two BV220, two BV120D, two BV050Q or one BV440M.
- Each BVSMPLT will drive one BV220, one BV120D or one BV050Q.
- Provide independent power converters with current and over-voltage protection circuits.
- Continual monitoring of the charger and all DC outputs ensures reliability.
- Standby batteries are continually 'float charged' by the unit. Ensuring that, in the event of mains failure, power is maintained.
- Built-in deep battery discharge cut off, preventing total discharge that can destroy the standby batteries in the event of AC power failure for long periods.
- A protected output is provided to power a mixer or auxiliary circuits.
- In the event of a fault condition an internal relay releases, providing a changeover contact. A fault will be indicated on the EVAS router.
- The constant voltage charger is set for the recommended float charge. Should the battery fall below this level the BVSMP will charge at a constant rate of three Amps, progressively reducing once the battery has achieved its nominal float level.
- Outputs, together with a volt-free (fault changeover) contact, are provided by a nine-way crimp connector plug and socket.
- Several chargers may be paralleled when used for larger systems. (Paralleled BVSMPs must be synchronised).

Front panel indicators:

- AC supply healthy.
- Fuse failure.
- Charger failure.
- Battery voltage high.
- Battery voltage low.
- OK.

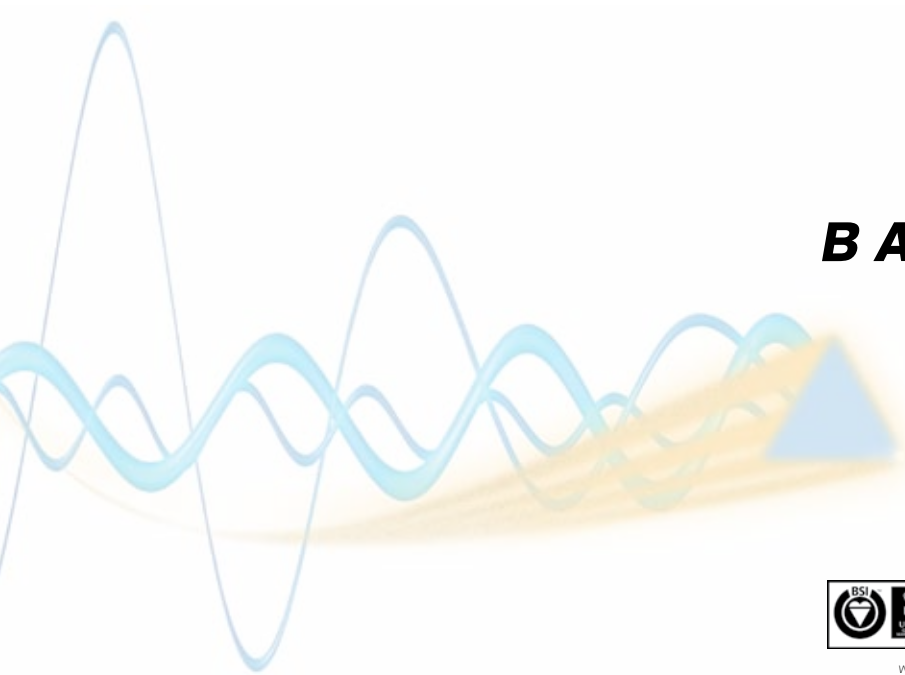
(lamp test switch for the above indicators).

BATTERIES:

- We recommend (and supply) high-quality lead acid batteries. They are sealed, valve regulated and maintenance free. As standard our batteries are available rated at 15, 40, 60, 75, 90, 110 and 125 Ampere hours. Larger standby systems can be provided and will be designed and calculated by our engineers. It is important that all voice alarm batteries comply with BS5839 or EN60849. The batteries activate when the mains has failed under emergency conditions.

POWER SUPPLIES SPECIFICATION:

| | BVSMP | BVSMPSLT |
|--|----------------------------------|--------------|
| AC supply input voltage | 200V-250V 50-60Hz | |
| Maximum power consumption | 700VA | 350VA |
| Maximum in-rush current @ 230V | 18A | 9A |
| DC output 1 to amplifier 1 | 31V @ 12A | |
| DC output 2 to amplifier 2 | 31V @ 12A | n/a |
| DC output 3 to auxiliary mixers, etc | 31V @ 2A | 31V @ 1A |
| Battery charger output | | |
| Voltage @ 20°C | 27.1V | |
| Temperature compensation | -66mV/C | |
| Maximum current | 3A | |
| Battery low fault voltage | 21V | |
| Battery high resistance fault | 100m Ohm | |
| Battery deep discharge cut off voltage | 16V | |
| Volt-free fault relay output contacts | 100V @ 1A maximum | |
| Fuse protection | | |
| AC supply (5 x 20mm) | 2 x 3.15A(T) | 1 x 3.15A(T) |
| Battery (automotive blade) | 2 x 20A | 1 x 20A |
| Charger input (self-resettable) | 6A | |
| Charger output(self-resettable) | 4A | |
| Auxiliary output (self-resettable) | 2 x 1.1A | 1 x 1.1A |
| Front panel indicators | | |
| AC supply | AC supply 'on' | |
| OK | No fault | |
| Fuse | Fuse fault | |
| Charger | Charger fault | |
| High | Battery voltage high fault | |
| Low | Battery voltage low fault | |
| Terminations | | |
| AC supply input | IEC 6A filtered connector | |
| 24V battery input | 3-pin screw terminated connector | |
| DC outputs & fault relay contacts | 9-pin crimp terminated connector | |



BALDWIN BOX▲LL

TEL: +44 (0) 1892 664422
 FAX: +44 (0) 1892 663146

EMAIL: MAIL@BALDWINBOXALL.CO.UK
 WEB: WWW.BALDWINBOXALL.CO.UK

BALDWIN BOXALL COMMUNICATIONS LTD
 WEALDEN INDUSTRIAL ESTATE,
 FARNINGHAM ROAD, CROWBOROUGH,
 EAST SUSSEX, TN6 2JR, UNITED KINGDOM.



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