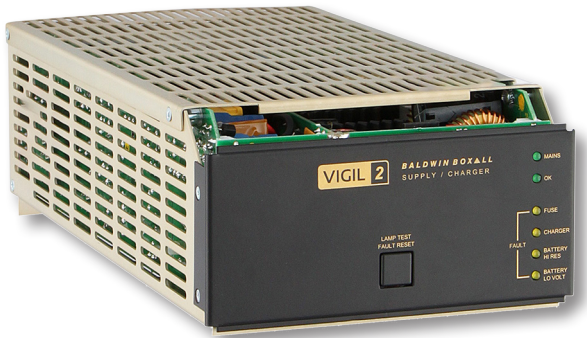


Power Supplies

Certified to BSEN54



VIGIL2 voice alarm system power supplies employ 'switch mode' techniques to improve efficiency and reduce unwanted heat dissipation and weight.

VIGIL 2

FEATURES:

- The BVSMP has two individually protected outputs at 24V; the BVSMPMLT has one.
- Each BVSMP will drive either two BV225, two BV125D, or two BV050Q.
- Each BVSMPMLT will drive one BV225, one BV125D 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 between 35Ah and 150Ah. 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.

MAINS ONLY:

- Switch mode power supplies without battery charging or monitoring facilities:
 - BVSMPM - dual output.
 - BVSMPMLT - single output.

Specifications:

	BVSMP	BVSMPSLT	BVSMPM	BVSMPMLT
AC supply input voltage	200V-250V 50-60Hz			
Maximum power consumption	700VA	350VA	700VA	350VA
Maximum in-rush current (@ 230V)	18A	9A	18A	9A
DC output 1 to amplifier 1 (peak)	29-31V @ 12A			
DC output 2 to amplifier 2 (peak)	29-31V @ 12A	n/a	29-31V @ 12A	n/a
I _{max} a amplifier 1:	3.5A	3.5A	n/a	
I _{max} a amplifier 2:	3.5A	n/a		
I _{min} amplifier 1:	0.1A	0.1A	n/a	
I _{min} amplifier 2:	0.1A	n/a		
DC output 3 to auxiliary mixers, etc	29-31V @ 2A	29-31V @ 1A	29-31V @ 2A	29-31V @ 1A
Battery charger output				
Voltage @ 25°C	27.12V		n/a	
Temperature compensation	-10mV/C		n/a	
Maximum current	3A		n/a	
Battery low fault voltage	21V		n/a	
Battery high resistance fault	22mOhm		n/a	
Battery deep discharge cut off voltage	18V		n/a	
Volt-free fault relay output contacts	100V @ 1A maximum		n/a	
Fuse protection				
AC supply (5 x 20mm)	2 x 3.15A(T)	1 x 3.15A(T)	2 x 3.15A(T)	1 x 3.15A(T)
Battery (automotive blade)	2 x 20A	1 x 20A	n/a	
Charger input (self-resettable)	6A		n/a	
Charger output (self-resettable)	4A		n/a	
Auxiliary output (self-resettable)	2 x 1.1A	1 x 1.1A	2 x 1.1A	1 x 1.1A
Front panel indicators				
AC supply	AC supply 'on'			
OK	No fault		n/a	
Fuse	Fuse fault		n/a	
Charger	Charger fault		n/a	
High	Battery voltage high fault		n/a	
Low	Battery voltage low fault		n/a	
Terminations				
AC supply input	IEC 6A filtered connector			
24V battery input	3-pin screw terminated connector		n/a	
DC outputs & fault relay contacts	9-pin crimp terminated connector			



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