

VOICE ALARM VIGIL2 AMPLIFIERS The BV050Q

VIGIL 2

Our range of Class D power amplifiers are proven and robust. Three power amplifiers are available in the range: BV225 (225 Watt), BV125D (2 x 125 Watt) and the BV050Q (4 x 50 Watt).

FEATURES:

- Designed for quick and simple connection and configuration.
- Class D rated output power is attainable using a 22V battery supply.
- Sleep mode - automatically reducing the standby requirements to 50mA per amplifier when operating on batteries.
- Audio inputs are presented on separate RJ45 connectors; each connector provides a balanced audio input and ground.
- Protected against overload conditions (ie short circuits) by means of a voltage controlled attenuator (VCA); ensuring continual safe operation without creating unnecessary distortion.
- Over temperature protection is also provided. Should the amplifier temperature exceed 90°C the VCA attenuates the input signal to a safe level and illuminates a warning LED. If the system is under surveillance (a requirement of BS5839-8:2008) a fault condition will be indicated due to the gain reduction.
- 24V DC inputs are presented on two-way crimp connected sockets.



BV050Q:

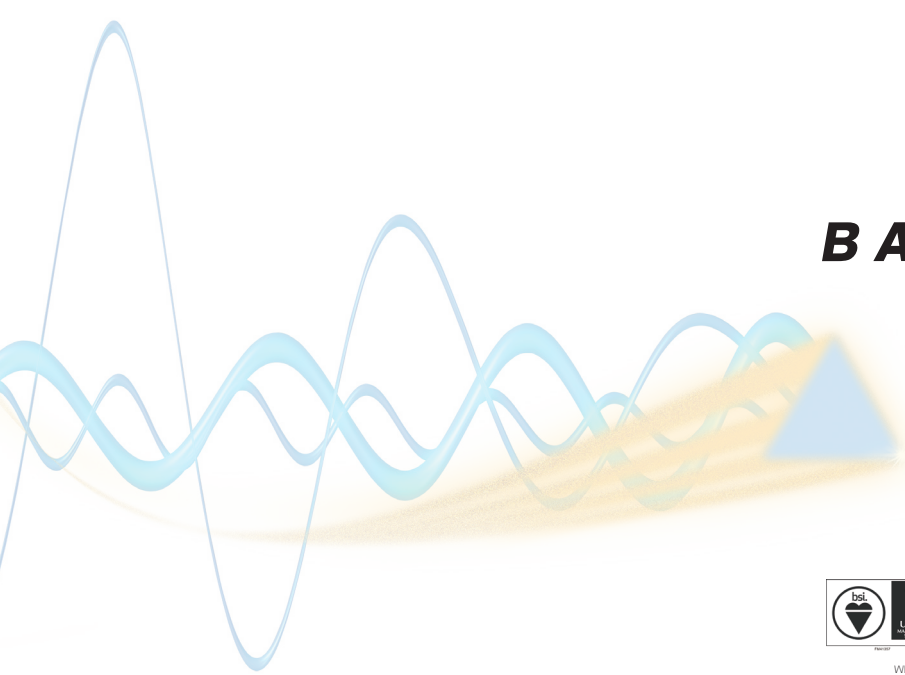
- Contains four independent 50W class D power amplifiers, each with a single balanced line audio input and 50W 100V line output.
- Can either be used as four independent amplifier modules or four amplifiers wired as an A/B dual circuit using a single input signal.
- Channel gain may be individually set using the potentiometers on the board behind the front panel.

BVMF MAINFRAME:

- Three amplifier modules (or two amplifiers and one BVSMF power supply) may be mounted in one BVMF mainframe.

VIGIL2 BV050Q AMPLIFIER SPECIFICATION:

	BV050Q (value per amplifier)
Rated output power less than 0.2% THD	50W RMS @ 200 ohms
Output regulation	better than 2dB
Output voltages obtainable	50 & 100V
Frequency response (-3dB)	35Hz-20kHz
Input sensitivity and impedance	500mV @ 40K ohms balanced
Input common mode rejection ratio	(50Hz-20kHz) Better than 40dB; typically 60dB
Output noise reference to rated output	Better than 80dB
Cross talk between amplifiers (@ 1kHz)	Better than 70dB
Supply voltage	22-35V DC
Supply current	
Sleep mode 26V (battery supply)	50mA
Quiescent 30V (mains supply)	160mA
Rated output power	10A
Output stage protection	
Thermal	Output stage above 90°C
Load	Excessive output stage current
Action	Reduces input to safe level using low distortion VCA
Front panel indicators per amplifier	
Supply (green)	DC supply connected
Active (green)	Amplifier is active, not in sleep mode
Temp alert (yellow)	Output stage above 90°C
Overload (yellow)	Protection circuit operating
100% (yellow)	100V output voltage
10% (green)	10V output voltage
Terminations	
Loudspeaker line output	2 x 6-way cage clamp
Balanced line inputs	RJ45 connectors
DC supply input	2 pin crimp connectors



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