



# VOICE ALARM VIGIL2 AMPLIFIERS

## VIGIL 2



Our range of Class D power amplifiers are proven and robust. Three different power amplifiers are available in the range:

BV225 - 225 Watt

BV125D - 2 x 125 Watt

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.

### BVMF MAINFRAME:

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

### BV225:

- 225W class D power amplifier with a single 500mV balanced line audio input and 100V line output.
- Can either be used as an independent amplifier module, can be one of two amplifiers wired as an A/B dual circuit using a single input signal or can be paralleled with other BV225 units to enable higher power outputs.
- BV225 units are easily paralleled via RJ45 connectors.

### BV125D:

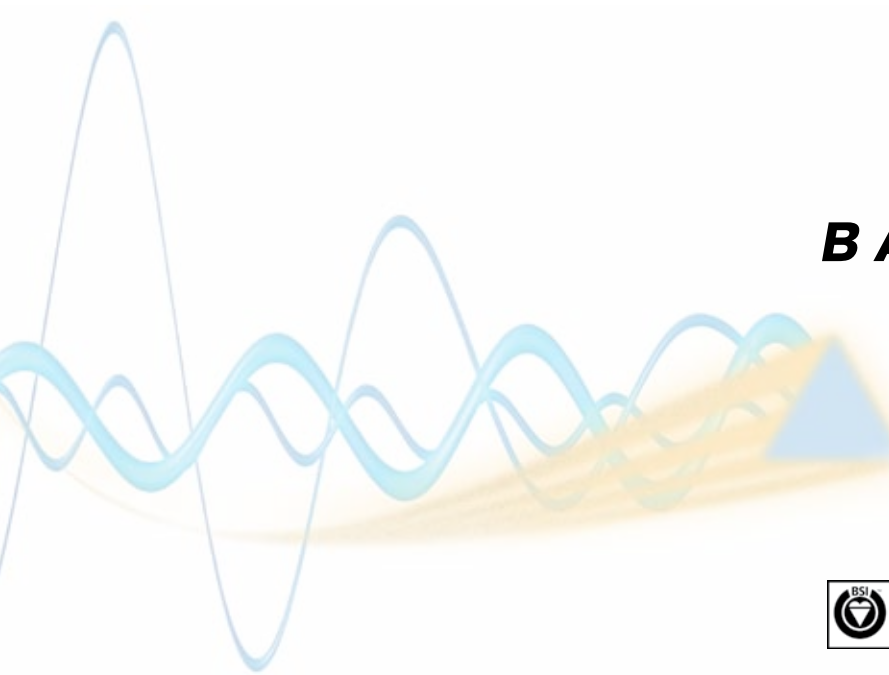
- Contains two independent 125W class D power amplifiers, each with a single balanced line audio input and 125W 100V line output.
- Can either be used as two independent amplifier modules or two amplifiers wired as an A/B dual circuit using a single input signal.

### 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.

**VIGIL2 AMPLIFIER SPECIFICATION:**

	<b>BV225</b>	<b>BV125D (value per amplifier)</b>	<b>BV050Q (value per amplifier)</b>
Rated output power less than 0.2% THD	225W @ 44.5 ohms	125W @ 80 ohms	50W @ 200 ohms
Typical output power less than 1% THD	260W @ 38.6 ohm	160W @ 62.5 ohms	65W @ 153.8 ohms
Output regulation	better than 1.5dB	better than 2dB	better than 2dB
Output voltages obtainable	50 & 100V		
Frequency response (-3dB)	35Hz-20kHz	35Hz-20kHz	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 85dB		Better than 80dB
Cross talk between amplifiers @ 1kHz	N/A	Better than 70dB	
Supply voltage	22-35V DC		
<b>Supply current</b>			
Sleep mode 26V (battery supply)	50mA		
Quiescent 30V (mains supply)	160mA		
Rated output power	10A		
<b>Output stage protection</b>			
Thermal	Output stage above 90°C		
Load	Excessive output stage current		
Action	Reduces input to safe level using low distortion VCA		
<b>Front panel indicators per amplifier</b>			
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		
<b>Terminations</b>			
Loudspeaker line output	3-way cage clamp	2 x 3-way cage clamp	2 x 6-way cage clamp
Balanced line inputs	RJ45 connectors		
DC supply input	2 pin crimp connectors		



# 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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