



ARCHEAN TECHNOLOGIES

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BV050Q

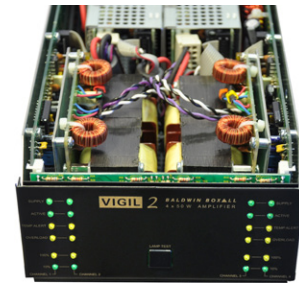
Class D amplifier 4 x 65W 100 V En54-16

EN54-24

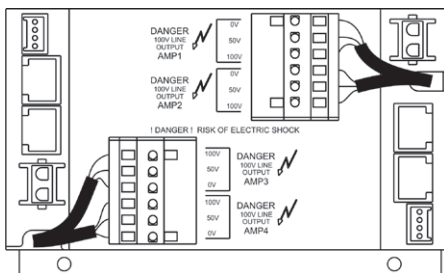
MADE IN 

5 years warranty

- Designed for quick and simple connection and configuration. Both amplifiers have two input connectors to enable simple interconnection using standard RJ45 patch leads. 2 U high and mountable in a 19" rack.
- These modules need to be supplied by the power supply BVPM or BVSMP (AES compliant to EN54) which are mountable in the BVMF 19" mainframe.
- Contains four independent 50W class D power amplifiers, each with a single balanced line audio input and 50W 100V line output
- Class D rated output power is attainable using a 22V battery supply.
- Sleep mode - automatically reducing the standby requirements to 50 mA per amplifier when operating on batteries..
- Each connector provides a balanced audio input and ground.
- The DC connectors are polarised two way latching crimp connectors.



- The power output stage of the amplifier is protected against overload conditions (i.e. short circuits or abnormal loads etc). Should the amplifier be subjected to an abnormal load the input to the power amplifier is attenuated to a safe level.
- The amplifier's output voltage is also sensed and should it exceed 100V the input signal will be attenuated ensuring safe operation without creating unnecessary distortion.
- The amplifier output voltage is also sensed and should it exceed 100V the VCA will be activated and will reduce the input signal ensuring safe operation without creating unnecessary distortion.
- If the system is under surveillance it will cause the surveillance detector to indicate a fault condition due to the gain reduction
- 1) Can either be used as four independent amplifier modules
- 2) or four amplifiers wired as an A/B dual circuit using a single input signal



BV050Q

Class D amplifier 2 x 125W 100 V En54-16

Technical specifications BV050Q (for one amplifier)	
Typical output power less than 1% THD	65 W @ 153.8 ohms
Output regulation	better than 2 dB
Output voltages obtainable	50 & 100 V
Frequency response (-3dB)	35 Hz - 20 kHz
Input sensitivity and impedance	500 mV @ 40 KΩ balanced
Input common mode rejection ratio	(50 Hz - 20 kHz) Better than 40 dB : typically 60 dB
Output noise reference to rated output	Better than 80 dB
Supply voltage	22 - 35 V DC
Sleep mode 26V (battery supply)	50 mA
Quiescent 30V (mains supply)	160 mA
Rated output power	10 A
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
Front panel indicators per amplifier Active (green)	Amplifier is active, not in sleep mode
Front panel indicators per amplifier Temp alert (yellow)	Output stage above 90°C
Front panel indicators per amplifier Overload (yellow)	Protection circuit operating
Front panel indicators per amplifier 100% (yellow)	100V output voltage
Front panel indicators per amplifier 10% (green)	10V output voltage
Loudspeaker line output	2 x 6-way cage clamp
Balanced line inputs	RJ45 connectors
DC supply input	2 pin crimp connectors
Dimensions	2 U, 1/3 19"

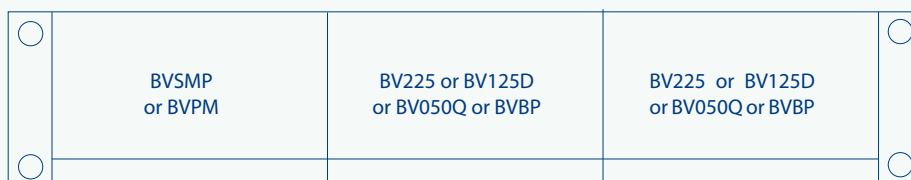
BVMF 19" mounting mainframe

The BVMF permits to mount amplifiers with their power supply in a 19" rack.

Several combinations are possible according to the customer's needs. We recommend to use the BVSMP in case of an Evac systems or BVPM if compliance with EN54 is required.

Standby batteries are continually 'float charged' by the unit. Ensuring that, in the event of mains failure, power is maintained.

The drawing hereunder illustrates the several mountings :



BVBP = blank panel 1/3 19"