



**ARCHEAN TECHNOLOGIES**  
 1899 avenue d'Italie - 82000 MONTAUBAN FRANCE  
 Tel : + 33 (0) 5 63 93 50 00

## VIGIL 3 Amplifiers & Charger

### Class D Amplifiers

EN54-16

MADE IN 

Garantie 5 ans

- Archean and Baldwin and Boxall are partners since 2005. Together, we offer custom solutions for your VA and PA systems.
- The VIGIL3 amplifiers form part of our new voice alarm range of products. They use new transformerless technology and have many great features.
- Our VIGIL3 range, as with all of our products, has been designed and built with quality and absolute reliability in mind.



- New floating transformerless technology which negates the need for cumbersome transformers. This means that:
  - Each amplifier is considerably lighter - weighing up to 58% less when compared on a Watt-for-Watt basis.
  - Much less copper is required during manufacture.
- VIGIL3 amplifiers provide increased power in a smaller sized rack/system when compared to alternatives.
- With VIGIL3 amplifiers it is possible to fit up to 1800 Watts of power in one 2U rack space.
- Each amplifier unit includes a built-in power supply, thus freeing up valuable rack space.
- The amplifiers have a 'sleep mode' which:
  - Operates not only when the system is running on batteries but also when it is running on mains power.
  - Will 'wake' immediately when they are required - there is absolutely no 'down time'.
  - Will benefit users due to the reduction in mains power use - both financially and environmentally.
- Up to three amplifier units - providing up to 12 zones - can be housed in a single 2U rack space.
- Being modular, VIGIL3 amplifiers offer great flexibility for system design.

- Each amplifier unit fits into a third of a 2U rack space.
- Options available are:
  - Dual 75 Watt (BVO75D)
  - Quad 75 Watt (BV075Q)
  - Dual 150 Watt (BV150D)
  - Quad 150 Watt (BV150Q)
  - Dual 300 Watt (BV300D)
- Being backward compatible\*, VIGIL3 amplifiers can replace VIGIL2 equivalents, should this be required.
- VIGIL3 amplifiers, when combined with the VIGIL3 battery charger module (BVMBC) and the BVRD2M/BVRD2M4 VIGIL2 voice alarm router(s), form a powerful EN54 compliant voice alarm system (VACIE).

#### Battery Charger Module :

- Fits alongside the VIGIL3 amplifiers in a mainframe.
- The module is half the size of the amplifier and VIGIL2 power supply charger.
- One charger module can continually monitor the power supplies in five VIGIL3 amplifiers.
- Continually monitors batteries and charges them when necessary



# VIGIL 3 Amplifiers & Charger

## Class D Amplifiers

	BV300D	BV150D	BV150Q	BV075D	BV075Q
Amplifiers in unit	2 x 300W	2 x 150W	4 x 150W	2 x 75W	4 x 75W
1 kHz rated output power, <0.2% THD	300W @ 33.3 Ohms	150W @ 66.6 Ohms		75W @ 132 Ohms	
Output regulation	>0.5dB	>0.3dB		>0.2dB	
Output voltage obtainable	100 V				
Frequency response (-3 dB)	35Hz to 20 kHz				
Input sensitivity and impedance	0dBm @ 10K Ohms balanced				
Input common mode rejection ratio	(50Hz-20kHz) mieux que 40dB (typ. 60dB)				
Output noise reference to rated output	Typ. 101dB(A)				
Cross talk between amps at 1 kHz	>70dB				
Supply voltage (batteries)	22-28V DC				
Standby current (batteries)	120mA / Amp	60mA / Amp			
24V input for rated output	14A/Amp	7.5A/Amp		3.75A/Amp	
<b>Output stage Protection</b>					
Thermal	Output stage above 90°C				
Loaded	Excessive output stage current				
Action	Reduces input to safe level using low distortion VCA				
<b>Fuse Protection</b>					
AC supply (5 x 20mm)	2 x 2A(T)	1 x 2A(T)	2 x 2A(T)	1 x 2A(T)	2 x 2A(T)
Battery (automotive blade)	2 x 20A	1 x 20A	2 x 20A	1 x 20A	2 x 20A
<b>Terminations</b>					
Speaker line output	2 x cage clamp		4 x 2 cage clamp	2 x cage clamp	4 x 2 cage clamp
Balanced line inputs	RJ45 connections				
DC supply (batteries)	2 pin rising clamp				
Mains supply input	IEC 6A filtered connector				
Dimensions (L x H x P)	142 x 75 x 311 mm				
Weight	3.1	2.3	3.1	2.3	3.1
Mains supply	230V + 10%/-15% 50/60Hz				
Power factor	Active power factor correction - better than 0.95 at rated power				
Standby power consumption (mains)	24W	12W	24W	12W	24W
Maximum power consumption	700W	350W	700W	175W	350W

We reserve the right to change technical specifications without prior notice.