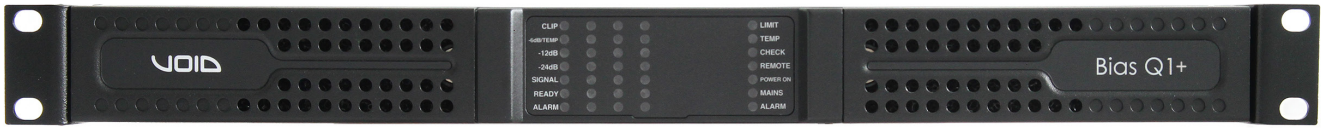


Bias Q1+



Product Overview:

1200W/4-channel Flexible Amplifier with DSP and AES67. 4 x 300W at 8 Ω

Bias Q1+ offers the amazing sound quality and reliability you would expect from all Void products.

Offering a full suite of DSP tools via ArmoniaPlus control software. Delay, E.Q, Input trim, Gain and Polarity, on top of our product presets with FIR filters and Limiters.

The patented SRM (Smart Rails Management) technology allows to maximize the efficiency of the system and drastically reduces power consumption in any load and usage condition. Bias amplifiers feature extremely low thermal dissipation, reducing the need for external cooling devices.

Bias Q1+ is designed to operate with Lo-Z (from 2 Ω) and 70V/100V distributed lines or any mix of the two.

DSP+ versions extend signal routing capabilities with the integration of AES67 digital audio networking architecture.

The amplifier platform that can be trusted in mission-critical applications, such as fire alarm systems, thanks to the cleverly engineered power supply that allows reliable operation even when connected to a UPS.

Install amplifier featuring standard Phoenix connectors.

Applications:

- Small to medium scale venues
- Bar, club, lounge
- Indoor and outdoor dance events
- Gyms and fitness
- Houses of worship
- Live music venue
- Hotels and resorts
- Corporate and AV
- Amusement parks
- Cruise ships

Bias Q1+

Channel Handling			
Number of output channels	4 Hi-Z or Lo-Z (bridgeable per ch. pair)	Phoenix PC 5/8-STF1-7,62	
Number of input channels			
Analog	4	Phoenix MC 1,5/12-ST-3,81	
AES67	4	1 x RJ45	

Audio				
Gain	26 dB	29 dB	32 dB	35 dB
Input sensitivity @ 8 Ω	2.48 Vrms	1.76 Vrms	1.24 Vrms	0.88 Vrms
Max input level	20 dBu			
Frequency Response (±0.5 dB, 1 W @ 8 Ω)	20 Hz - 20 kHz			
Crosstalk (1 kHz)	typical -70 dB			
S/N (32 dB gain, analog input 20 Hz - 20 kHz @ 8 Ω)	> 104 dB(A)			
Input impedance	20 kΩ balanced			
THD+N (from 0.1 W to Full Power)	< 0.1% (typical < 0.05%)			
DIM (from 0.1 W to Full Power)	< 0.05%			
Slew Rate (input filter bypassed @ 8 Ω)	> 50 V/μs			

DSP	
AD converters	24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range - 0.005 % THD+N
DA converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 44.1 kHz to 192 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture
Memory/Presets	128 MB (RAM) plus 512 MB flash for presets
Delay	2 s (input) + 100 ms (output) for time alignment
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance™ measurement

Output Stage	
Maximum output power per channel @ 8 Ω	300 W
Maximum output power per channel @ 4 Ω	300 W
Maximum output power per channel @ 2 Ω	400 W
Maximum output power @ 4 Ω Bridged	800 W
Maximum output power @ 8 Ω Bridged	600 W
Maximum output power @ Hi-Z distributed line 100 V	300 W
Maximum output power @ Hi-Z distributed line 70 V	300 W
Maximum unclipped output voltage @ 8 Ω	70 V _{peak}
Maximum output current	33 A _{peak}

The power figure is calculated by driving and loading symmetrically all the channels: uneven loads allow to achieve higher performances.

AC Mains Power				
Power supply	Universal regulated switch mode with PFC, SRM			
Nominal voltage (±10%)	100-240 V @ 50-60Hz			
Power factor (> 500 W output)	> 0.95			
Consumption/current draw	@ 115 V	@ 230 V		
Idle (DSP+)	311 W	0.45 A	315 W	0.25 A
1/8 Max Output Power @ 4 Ω	227 W	2.1 A	251 W	1.4 A
AC Mains connector	IEC C20 inlet (20 A max) region-specific power cord provided			

Thermal				
Operating temperature	-10° - 35° C / 14° - 95° F			
Cooling	Fan, continuously variable speed, temperature controlled, front to rear airflow			
Thermal dissipation	@ 115 V		@ 230 V	
Idle	106 BTU/h	26.7 kcal/h	107 BTU/h	27 kcal/h
1/8 Max Output Power @ 4 Ω	261 BTU/h	65.8 kcal/h	344 BTU/h	86.7 kcal/h

Construction	
Dimensions	483 x 44.5 x 358 mm 19.0 x 1.75 x 14.1 in
Weight	7.0 Kg (15.4 lb)

Networking	
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star
Remote interface	Armonia Pro Audio Suite™

