

Bias D1+



Product Overview:

1600W/2-channel Flexible Amplifier with DSP and AES67. 2 x 800W at 8Ω.

Bias D1+ offers the amazing sound quality and reliability you would expect from all Void products.

Offering a full suite of DSP tools via ArmoníaPlus 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 D1+ 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.

Bias D1+ is rated IP-20.

Applications

- Medium to large 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
- Corporate and AVL

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Channel Handling				Output Stage									
Number of output channels		4 Hi-Z or Lo-Z (bridgeable per ch. pair)		Phoenix PC 5/8-STF1-7,62		800 W							
Number of input channels						800 W							
Analog		2		Phoenix MC 1,5/12-ST-3,81		1000 W							
AES67		2		1 x RJ45		2000 W							
Audio													
Gain	26 dB	29 dB	32 dB	35 dB									
Input sensitivity @ 8 Ω	4.08 Vrms	2.89 Vrms	2.04 Vrms	1.45 Vrms	Maximum output power per channel @ 8 Ω								
Max input level		20 dBu		800 W									
Frequency Response (±0.5 dB, 1 W @ 8 Ω)		20 Hz - 20 kHz		Maximum output power per channel @ 4 Ω									
Crosstalk (1 kHz)		typical -70 dB		1000 W									
S/N (32 dB gain, analog input 20 Hz - 20 kHz @ 8 Ω)		> 109 dB(A)		Maximum output power @ 4 Ω Bridged									
Input impedance		20 kΩ balanced		2000 W									
THD+N (from 0.1 W to Full Power)		< 0.1% (typical < 0.05%)		1600 W									
DIM (from 0.1 W to Full Power)		< 0.05%		Maximum output power @ 8 Ω Bridged									
Slew Rate (input filter bypassed @ 8 Ω)		> 50 V/μs		800 W									
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 linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)												
Crossover	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												
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+D)	23.0 W		0.34 A		23.3 W		0.21 A						
1/8 Max Output Power @ 4 Ω	267 W		2.5 A		274 W		1.5 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	78 BTU/h		19.66 kcal/h		79 BTU/h		19.91 kcal/h						
1/8 Max Output Power @ 4 Ω	229 BTU/h		57.71 kcal/h		251 BTU/h		63.25 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™												

