

The highly versatile Bias D1 amplifier is simple and easy to set up. Its front panel LED display provides status feedback, which can alternatively be obtained by connecting the amp to a PC running Armonia Pro Audio Suite™ software. A fully integrated, state-of-the-art DSP offers extensive system management features, including sound shaping and limiter functionality.

Key features

- Easy to set up, versatile to use
- Status feedback provided via front panel LED display or connection to a PC running Armonia Pro Audio Suite™ software
- Eco-friendly, energy efficient
- Minimal operational costs and carbon footprint
- Fully integrated, state-of-the-art DSP for extensive system management functionality
- Sound shaping and limiter function
- DSP hardware enables compliance with IEC 60849
- Designed to work with lo-Z (from 2 Ω) and with 70V/100V distributed lines; any mixed configuration of low and high impedance output loads can be attained

Applications

- Bar, club, lounge
- Corporate and AV
- Indoor and outdoor dance events
- Large-scale touring
- Live music venues.

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Version 1.0

Bias D1

Channel Handling					
Number of output channels	2 Hi-Z or Lo-Z (bridgeable per ch. pair)		Phoenix PC 5/8-STF1-7,62		
Number of input channels					
Analog	2		Phoenix MC 1,5/12-ST-3,81		
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	
Max input level	20 dBu				
Frequency Response ($\pm 0.5~\text{dB}$, 1 W @ 8 $\Omega)$			20 Hz - 20 kHz		
Crosstalk (1 kHz)		typical -70 dB			
S/N (32 dB gain, analog input 20 Hz - 20 kHz @ 8 Ω)			> 109 dB(A)		
Input impedance			20 k Ω 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		
Damping Factor @ 8 Ω , 20 Hz - 100 Hz			> 5	00	
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 800 W Maximum output power per channel @ 4 Ω 800 W Maximum output power per channel @ 2 Ω 1000 W Maximum output power @ 4 Ω Bridged 2000 W Maximum output power @ 8 Ω Bridged 1600 W Maximum output power @ Hi-Z distributed line 100 V 800 W Maximum output power @ Hi-Z distributed line 70 V 800 W Maximum unclipped output voltage @ 8 Ω 115 V 45 A_{peak} Maximum output current

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 100-240 V @ 50-60Hz Nominal voltage (±10%) > 0.95 Power factor (> 500 W ouput) 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 IEC C20 inlet (20 A max) region-specific power cord provided AC Mains connector Thermal Fan, continuously variable speed, temperature controlled, front to rear airflow Cooling Thermal dissipation @ 115 V @ 230 V 78 BTU/h 19.66 kcal/h 79 BTU/h 19.91kcal/h Idle 229 BTU/h 57.71 kcal/h 251 BTU/h 63.25 kcal/h 1/8 Max Output Power @ 4 Ω

Construction Dimensions

Weight

Networking

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

483 x 44.5 x 358 mm 19.0 x 1.75 x 14.1 in

7.0 Kg (15.4 lb)

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