

Bias Q1+



Compact 4-channel amplifier with integrated DSP, delivering 300 W per channel in a lightweight 1U format



POWER

300 W per channel (8 Ω)



INPUT TYPE

Analog, AES67



COMPUTER CONTROL

DSP



NUMBER OF CHANNELS

4 channels

Galleries & Museums

Beach & Poolside

Residential

Retail

Gyms & Fitness

The Bias Q1+ is designed to deliver reliable amplification in a compact and lightweight format. Its efficient power supply reduces energy consumption and heat output while maintaining consistent performance, making it well suited to smaller systems and distributed audio applications.

A microprocessor controlled power supply with built-in power factor correction ensures stable operation across a wide-range of mains voltages. Combined with Smart Rails Management technology and support for both low and high-impedance systems, the Bias Q1+ delivers consistent performance in a wide-range of applications.

KEY FEATURES

4 channel amplifier delivering 300 W per channel (8 Ω)

Full suite of DSP tools and monitoring via ArmoníaPlus software

Highly efficient Class-D design with patented SRM (Smart Rails Management) technology

DSP+ variants extend signal routing with integrated AES67 digital audio networking

Automatic power sharing, optimising delivery for asymmetrical loads

Access to Void preset marketplace, offering optimised frequency response, FIR-optimised phase response, and a suite of protection limiters

Compatible with low-Z (from 2 Ω) and 70 V / 100 V distributed systems, supporting mixed low and high-impedance loads

Universal mains operation (90–264 V AC)

WM Touch compatible

SPECIFICATIONS
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 LivImpedance™ 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+D)	31.1 W	0.45 A	31.5 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

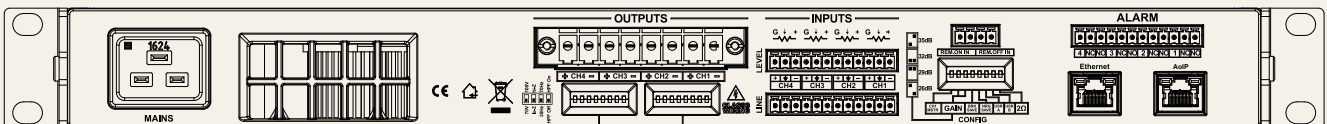
Operating temperature	-10° - 35° C / 14° - 95° F			
Cooling	Fan, continuously variable speed, temperature controlled, front to rear airflow			
Thermal dissipation	@ 115 V			@ 230 V
Idle	106 BTU/h	26.7 kcal/h	107 BTU/h	27 kcal/h
1/8 Max Output Power @ 4 Ω	261 BTU/h	65.8 kcal/h	344 BTU/h	86.7 kcal/h

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	ArmoniaPlus™



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