

# Bias Q2+



Compact 4-channel amplifier with integrated DSP, delivering 1200 W per channel in a lightweight 1U format



#### POWER

1200 W per channel (8  $\Omega$ )



#### INPUT TYPE

Analog, AES67



#### COMPUTER CONTROL

DSP



#### NUMBER OF CHANNELS

4 channels

Nightclubs & Bars

Retail

Galleries & Museums

Beach & Poolside

Festivals & Events

Gyms & Fitness

Festivals & Events

The Bias Q2+ delivers high-output and ample headroom while maintaining a compact 1U design. Its efficient architecture reduces power consumption, heat output and operating costs, making it well suited to demanding installation environments.

Designed for use across nightclubs, hotels, restaurants and retail environments, the Bias Q2+ provides reliable and consistent amplification. Compatibility with optimised presets ensures predictable system performance, while its four channel design supports flexible system configurations.

#### KEY FEATURES

4 channel amplifier delivering 1200 W per channel (8  $\Omega$ )

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  $\Omega$ ) 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	4.9 Vrms	3.47 Vrms	2.45 Vrms	1.73 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)	> 110 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	1200 W
Maximum output power per channel @ 4 Ω	1200 W
Maximum output power per channel @ 2 Ω	1500 W
Maximum output power @ 4 Ω Bridged	3000 W
Maximum output power @ 8 Ω Bridged	2400 W
Maximum output power @ Hi-Z distributed line 100 V	1200 W
Maximum output power @ Hi-Z distributed line 70 V	1200 W
Maximum unclipped output voltage @ 8 Ω	139 V <sub>peak</sub>
Maximum output current	45 A <sub>peak</sub>

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

**AC Mains Power**

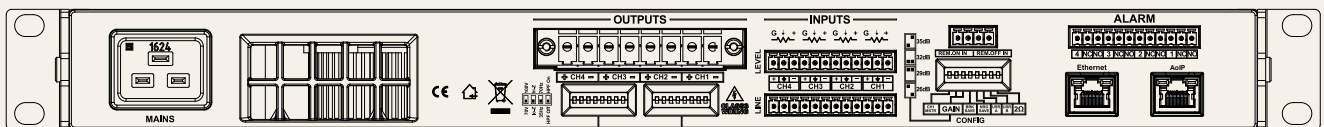
Power supply	Universal regulated switch mode with PFC, SRM			
Nominal voltage (±10%)	100-240 V @ 50-60Hz			
Power factor (> 500 W output)	> 0.95			
Consumption/current draw	@ 115 V		@ 230 V	
Idle (DSP+D)	33.6 W	0.5 A	33.7 W	0.35 A
1/8 Max Output Power @ 4 Ω	850 W	9.16 A	826.8 W	5.02 A
1/4 Max Output Power @ 4 Ω	1718 W	15.96 A	1651 W	9.41 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	110.3 BTU/h	27.8 kcal/h	110.6 BTU/h	27.9 kcal/h
Idle (DSP+)	114.7 BTU/h	28.92 kcal/h	115.1 BTU/h	29.02 kcal/h
1/8 Max Output Power @ 4 Ω	853.5 BTU/h	215.2 kcal/h	768.1 BTU/h	193.7 kcal/h
1/4 Max Output Power @ 4 Ω	1768.5 BTU/h	445.9 kcal/h	1539.8 BTU/h	388.3 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)



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