

Bias Q5



Compact 4-channel amplifier with integrated DSP, delivering up to 5200 W per channel in a compact 1U format



POWER

1600 W per channel (8 Ω)



INPUT TYPE

Analog, AES3



COMPUTER CONTROL

DSP



NUMBER OF CHANNELS

4 channels

Nightclubs & Bars

Festivals & Events

The Bias Q5 is designed to deliver the highest levels of output and control across large-scale systems. Combining powerful amplification with advanced DSP and system integration, it is well suited to touring, events and demanding installation environments where performance and reliability are critical.

With flexible routing, integrated DSP and full compatibility with ArmoníaPlus, the Bias Q5 enables complete system control and optimisation. Remote monitoring, input redundancy and advanced signal processing ensure consistent performance across complex system configurations.

KEY FEATURES

4 channel amplifier delivering 1600 W per channel (8 Ω)

3000 W per channel at 4 Ω

Analogue and AES3 audio inputs

Full suite of DSP tools and monitoring via ArmoníaPlus software

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

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

Universal mains operation (90–264 V AC) single phase

Bi-phase and three-phase operation supported

WM Touch compatible

SPECIFICATIONS
Channel Handling

Number of output channels:	4 mono, bridgeable per ch. pair
Number of input channels:	
Analog	4 (4x XLR)
AES3	4 (2x XLR)

Audio

Output Noise A-Weighted @ 8 Ω - Analog to Analog / Digital to Analog	< -70.0 dBV
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Dynamic Range A-Weighted @ 8 Ω - Analog to Analog / Digital to Analog	114,3 dB
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Damping Factor @ 8 Ω, 20Hz - 500Hz	> 5000
Slew Rate (input filter bypassed)	> 50 V/μs
Frequency Response (-3 dB, 1 W @ 8 Ω)	5 Hz - 30 kHz
Crosstalk (1 kHz)	-70 dB
THD+N (from 0.1 W to Full Power)	< 0.5% (typical < 0.01%)
DIM (from 0.1 W to Full Power)	< 0.5% (typical < 0.01%)
Input Impedance	20 kΩ Balanced
Input Acceptance	+27 dBu

DSP

AD converters	24 Bit Tandem™ @ 96 kHz 129 dB Dynamic Range - 0.00056 % THD+N
DA converters	24 Bit Tandem™ @ 192 kHz 121 dB Dynamic Range - 0.00084 % THD+N
Sample rate converter	24 Bit @ 44.1 kHz to 192 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	40 bit floating point
Delay	2 s + 100 ms 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), hybrid (FIR-IIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™

Construction

Dimensions	483 mm x 44.5 mm x 495 mm 19.0 in x 1.75 in x 19.5 in
Weight	15 kg (33.0 lb)

Output Stage

Maximum output power per channel @ 8 Ω	1600 W
Maximum output power per channel @ 4 Ω	3000 W
Maximum output power per channel @ 2 Ω	5200 W
Maximum output power @ 8 Ω bridged	6000 W
Maximum output power @ 4 Ω bridged	10400 W
Peak total output, all channels driven	20000 W
Maximum unclipped output voltage	175 V _{peak}
Maximum output current	130 A _{peak}

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

AC Mains Power

Single-Phase	
Nominal Voltage	100 - 240 V @ 50/60Hz
Operating Range	90 - 264 V from DC to 200Hz
Power Factor	> 0.9
1/8 Maximum Output Power @ 4 Ω	
Current Draw	18 A _{rms} @ 100V
1/8 Maximum Output Power @ 4 Ω	9 A _{rms} @ 240V
Suggested circuit breaker	C16

Three-Phase

Nominal Voltage**	208Y / 120 - 416Y / 240 V, 3-, 3W+N+PE @ 50/60Hz 200 V-, 3W+PE @ 50/60Hz
Power Factor	> 0.9
1/8 Maximum Output Power @ 4 Ω	
Current Drawn from Each Single Phase	6 A _{rms} @ 208Y
1/8 Maximum Output Power @ 4 Ω	3 A _{rms} @ 416Y
Suggested circuit breaker (per phase)	C10

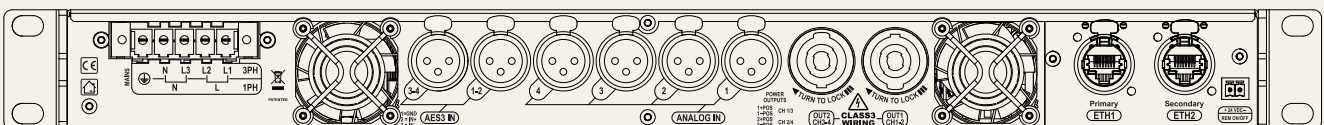
Bi-Phase

Nominal Voltage	200/100 V, 2W+PE @ 50/60Hz
Idle Consumption (all AC MAINS cases)	< 100 W
Max Consumption (all AC MAINS cases)	< 3500 W

** Note: 208Y/120 V = 208 V phase-to-phase, 120 V phase-to-neutral

Thermal

Operating temperature	0° - 15°C / 32° - 113°F	
Cooling	Fan, continuously variable speed, temperature controlled	
Thermal dissipation		
Single phase	115V	230V
1/8 Maximum Output Power @ 8 Ω	1127 BTU/h	1058 BTU/h
1/4 Maximum Output Power @ 8 Ω	2124 BTU/h	1639 BTU/h



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