

Bias Q2



For reliable premier-grade power and headroom in the lightest possible package size, look no further than this four channel Bias Q2 DSP amplifier. With smaller dimensions and a lighter weight than the Bias Q5, it is still durable and maintains an impressive sound quality.

Key features

- Smaller dimensions and lighter weight, taking up one rack unit only
- Impressive sound quality and reliability
- Highly efficient, microprocessor-controlled power supply with built in PFC (Power Factor Correction) for flawless worldwide operation with any AC mains voltage in the range 85-275 VAC tolerant to peak up to 400 V
- Patented SRM (Smart Rails Management) technology
- Responsive at any operating condition
- Works with lo-Z (from 2 Ω) and with 70V/100V distributed lines so 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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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

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	
Damping Factor @ 8 Ω, 20 Hz - 100 Hz			> 500	

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

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

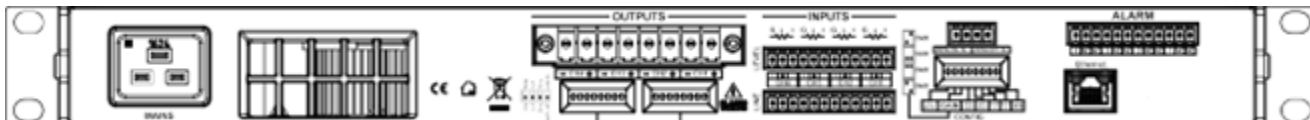
Output Stage	
Maximum output power per channel @ 8 Ω	1200 W
Maximum output power per channel @ 4 Ω	1200 W
Maximum output power per channel @ 2 Ω	1500 W
Maximum output power @ 4 Ω Bridged	3000 W
Maximum output power @ 8 Ω Bridged	2400 W
Maximum output power @ Hi-Z distributed line 100 V	1200 W
Maximum output power @ Hi-Z distributed line 70 V	1200 W
Maximum unclipped output voltage @ 8 Ω	139 V _{peak}
Maximum output current	45 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 ouput)	> 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+D)	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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