Q5

4-CHANNEL AMPLIFIER, 5200 W @ 2 ?, BUILT-IN DSP

Q5

The Bias Q5 is a 4-channel amplifier in a 1 RU format, designed to deliver extreme power, maximum routing flexibility, and advanced digital signal management, all in a compact and integration-ready form factor. With a maximum output of 5200 W per channel at 2 ? (up to 10400 W bridged at 4 ?), it’s the ideal solution for high-power full-range systems and subwoofers in live, touring, fixed installations, theatres, and festivals.

Thanks to its analog and AES3 digital inputs on each channel and the ability to set automatic signal backup policies, the Q5 ensures operational continuity even in case of input failure. The high-grade integrated DSP, fully managed via Armonía Pro Audio Suite™, enables comprehensive processing including FIR/IIR EQ, raised-cosine filters, multiple limiters (peak, RMS voltage/current, TruePower™), advanced delay and signal loss compensation over speaker cables using Active DampingControl™.

The power supply has been completely redesigned to guarantee stability, efficiency, and reliability, operating across voltages from 90 to 264 V, and supports single-phase, bi-phase, and three-phase configurations. With WiFi remote monitoring, full protection circuitry, and a comprehensive user interface, the Bias Q5 is a benchmark choice for professionals who demand maximum performance, safety, and control in every scenario.

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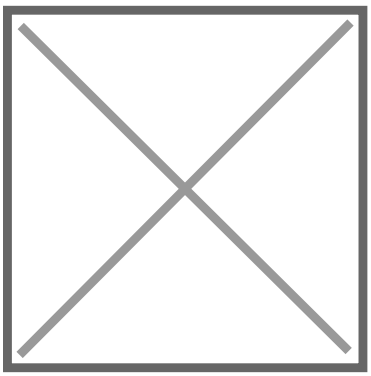
DSP Eco Friendly Fan Controlled by Processor Wireless Control

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HIGHLIGHTS



MAXIMUM POWER AND CONTROL IN 1 RU: UP TO 20,000 W TOTAL OUTPUT WITH ADVANCED DSP, AUTOMATIC SIGNAL BACKUP AND FULL CONNECTIVITY

Thanks to an optimized internal design and next-generation electronics, the Bias Q5 delivers up to **20,000 W of total power** , while ensuring **stability, precision, and safety**, even under extreme load conditions. Its **high-dynamic range DSP**, combined with **flexible routing**, multiple limiter types, **preset optimization**, and **automatic signal backup**, provides full system control in any application. All of this is packed into just **44 mm of rack height**, with **complete analog and digital connectivity**, **WiFi remote access**, and full integration with the **Armonía platform**. Extreme power, digital intelligence, and compactness – all in one module.

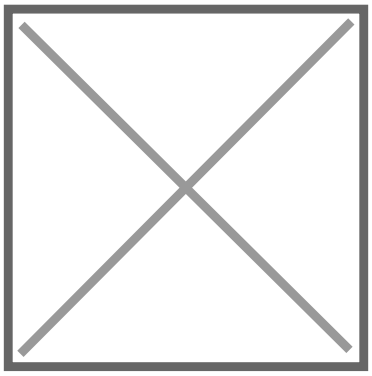
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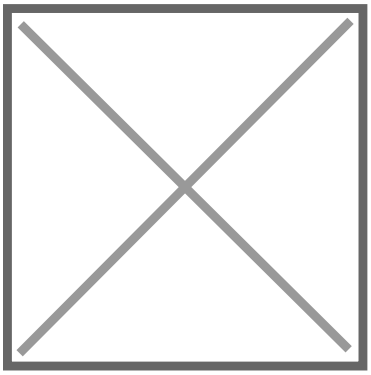
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COMPACT 1 RU DESIGN WITH CONTINUOUS POWER UP TO 5200 W PER CHANNEL AT 2 ?, PERFECT FOR HIGH-END FULL-RANGE AND SUBWOOFER SYSTEMS

Despite its compact size of **just one rack unit (1 RU)**, the Bias Q5 is capable of delivering **up to 5200 W per channel into 2 ? loads**, an extraordinary power output that places it among the top performers in its class. This power density makes it ideal for driving **large-format subwoofers and high-efficiency full-range loudspeakers**, even in demanding applications such as **touring, festivals**, and large-scale events. The ability to deliver **high current and stable output voltage** enables the Q5 to maintain sound quality under the most challenging load conditions, ensuring **consistent headroom, dynamics, and reliability**.





PFC (POWER FACTOR CORRECTION) FOR FLAWLESS WORLDWIDE OPERATION

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

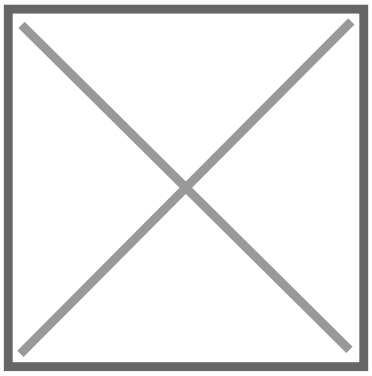
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INTELLIGENT VARIABLE SPEED VENTILATION

Ventilation is controlled by internal temperature, with front-to-rear airflow for rack mounting.



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4-CHANNEL AMPLIFIER, 5200 W @ 2 ?, BUILT-IN DSP

PRODUCT DETAILS

KEY FEATURES

- Innovative high-efficiency power supply, compatible with single, bi-phase and three-phase grids from 90 to 264 V
- Flexible routing and mixing
- Multi-stage signal processing
- Customisable input backup policy to automatically switch input source in case of signal failure for improved reliability

SPECIFICATIONS

Number of channels	4
Power rating	1600 watts per channel @ 8 ?, 3000 watts per channel @ 4 ?, 5200 watts per channel @ 2 ? | BRIDGE MODE
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 input + 100 ms output for time alignment
Equalizers	parametric IIR (peaking, hi/lo-shelving, band-pass, band-stop, all-pass, hi/lo-pass) | custom FIR | Raised-cosine
Crossover	FIR linear phase | Hybrid (FIR-IIR) | Butterworth | Linkwitz-Riley | Bessel 6 to 48 dB/oct (IIR)
Limiter	TruePower™, RMS voltage, RMS current, Peak
Damping Control	Active DampingControl™

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Frequency response (-3 dB , 1 W @ 8 ?)	5 Hz - 30 kHz
Crosstalk (1 kHz)	-70 dB
Output Noise A-Weighted @ 8 ? - Analog to Analog / Digital to Analog	< -70.0 dBV
Input impedance	20 k? balanced
THD+N (from 0.1 W to maximum power)	<0.5% (typical <0.01%)
DIM (from 0.1 W to Full Power)	< 0.05% (typical <0.01%)
Slew rate	>50 V/µs (input filter bypassed)
Output channels	4x channels (mono, bridgeable x ch.pair)
Analog inputs	4x XLR
AES3 digital inputs	4 channels (2x XLR)
Dimensions (W x H x D)	483mm x 44.5mm x 495mm
Weight	15 kg (33 lb)
Single-Phase Rated voltage	100-240 V @ 50-60 Hz
Single-Phase Power Factor 1/8 Maximum Output Power @ 4 ?	>0.9
Single-Phase Current draw and consumption	1/8 Maximum Output Power @ 4 ?
Operating temperature	0° - 15°C / 32° - 113°F
Cooling	Variable-speed fan, temperature controlled
Single phase heat dissipation	1127 BTU/h @ 115 V / 1058 BTU/h @ 230 V 1/8 Maximum Output Power @ 8 ? | 2124 BTU/h @ 115 V / 1639 BTU/h @ 230 V 1/4 Maximum Output Power @ 8 ?
Maximum undistorted voltage	139 V peak @ 8 ?
Maximum output current	45 A peak
IP rating	IP20

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