

DIGAM Q SERIES

- DIGAMechnology
- Four channels in compact 1U size
- Worldwide power supply with PFC
- Remote control option

The evolution of DIGAMtechnology for a widerange of 4 channels uses



DIGAM Q Series offer various power ratings in 5 models ranging from 4 x 400 watts/ch. @ 4 Ω to 4 x 1250 watts/ch. @ 2 Ω, still maintaining the 1 unit size. This series, in similar way to the corresponding DIGAM D series, is particularly suitable to be used either for stand alone medium/small installations either in large and distributed systems thanks to the capability of advanced remote control and monitoring features suitable to manage up to 100 amps. The DIGAM Q series represents a further flexible and cost effective approach from stand alone use to large systems, allowing invarious system configurations to reduce the total number of equipment

Output Specifications*

	1 Ω quad	2 Ω quad	4 Ω quad	8 Ω quad	2 Ω bridge	4 Ω bridge	8 Ω bridge
Q4004			1000 W	600 W			2000 W
Q3204			800 W	500 W			1600 W
Q4002		1000 W	600 W	350 W		2000 W	1200 W
Q3002		750 W	400 W	250 W		1500 W	800 W
Q5001	1250 W	700 W	350 W	180 W	2500 W	1400 W	700 W

*EIAJ Est 1kHz 1%THD

Features:

- Advanced switch-mode worldwide operating power supply technology for high performances and compact size
- Power Factor Correction (PFC) for extremely low mains consumption and wide main operating range
- Variable speed fan for low noise
- Inrush Limiter for low AC inrush current, removing the need for expensive power sequencers
- XLR female / 6.3mm Jack/Neutrik® style input connectors with link capability
- Built-in clip limiters
- Detented gain controls for fast and accurate gain setting (32, 30, 28, 26, 24, 22, 20, 14, 4 dB)
- Comprehensive front panel indicators including signal clip, protect and thermal forecast
- Fully protected circuit design including Duffonsonic, high frequency, thermal overload and short circuit
- Fixed frequency switchmode output stage for high grade sound accuracy
- Compact size: all models only 1RU for reduced rack cost and space
- Light weight: all models only 1kg (22 pounds) for easier racking and shipping
- Remote Control Option (RS 485 interface)
- Selectable noise gate
- Selectable active filter HP, LP, BP 12dB/oct 65/100/130 Hz for each channel

Audio Section:

Channels: 4
Bandwidth (1W, 8Ω): 5Hz – 30KHz
SNR (20Hz-20kHz Aweighted): > 105dB
Distortion THD: Max < 0.5% @ 0.1W to fullpower (typically < 0.1%)
Intermodulation distortion DIM100: Max < 0.02% @ 0.1W to fullpower (typically < 0.01%)
Intermodulation distortion SMPTE: Max < 0.5% @ 0.1W to fullpower (typically < 0.1%)
Damping Factor (8Ω): > 300 @ 100Hz
Voltage Gain: 32dB
Slew Rate (8Ω): 40V/μs (input filter bypassed)

Power Section:

AC Line Voltages: 95 - 265V (50/60Hz)
Power Factor cos(φ): More than 0.95 @ 200W to fullpower
Operating Environment Temperature: 0°C / + 45° C
Consumption Average: 1050 VA (Q5001) 900 VA (Q4002 Q4004) 700 VA (Q3204), 650 VA (Q3002)

Input/Output:

Input Connectors: Balanced to ground, XLR female combo jack 6.3 mm
Input Impedance: 10 kΩ each electronically balanced to ground
Output Connectors: Neutrik® 4-pole Speakon® connectors, pins 1+1- single ended; pins 2+2- bridged

Protections:

DC protection: protects against infersonic signals
VHF protection: protects the loudspeakers against strong very high frequency non-musical signals above the audible range.
Thermal protection: prevents the amplifier from being overheated. The protection indicators on the front panel are switched on as a warning, before the protection process is initiated.
AC protection: shuts down the power supply if the line voltage is outside the operating voltage.
Clip limiter: prevents severely clipped waveforms from reaching the loudspeakers, whilst maintaining full peak power.

Controls/Indicators:

Front Panel: Led bar indicator, signal protect, temp, ready. Channel gain control knobs.

Construction:

External Dimensions: Standard rack 19" - 1 unit (HxWxD) 44x482x475 mm
 Weight: 10 Kg

Accessories:

Networking: Optional
Constant voltage output: Galvanic insulation unit TU4

Main Applications:

Portable Sound, Installations, Public Addressing

