


# Q-POWER 14




## World's first DSP controlled Mains Analytic Power Supply


The CAMCO Q-Power series, a range of 4 different 4 channel, high output power amplifiers, has been designed to provide that, Powerful Pure Sonic Performance which is now so synonymous with the CAMCO brand name.

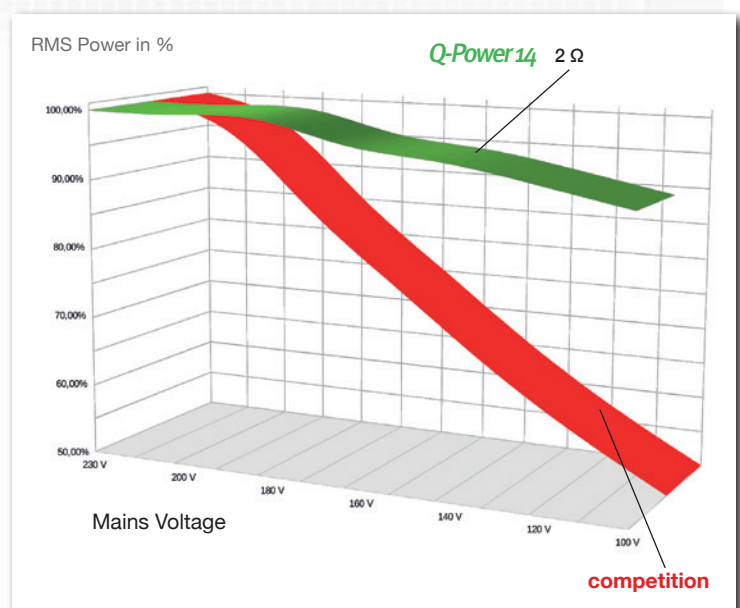
The all new Q-Power 14 with DSP controlled Mains Analytic Power Supply  is the flagship of the series, offering up to 14,000 W of undistorted power in an extreme compact and lightweight package.



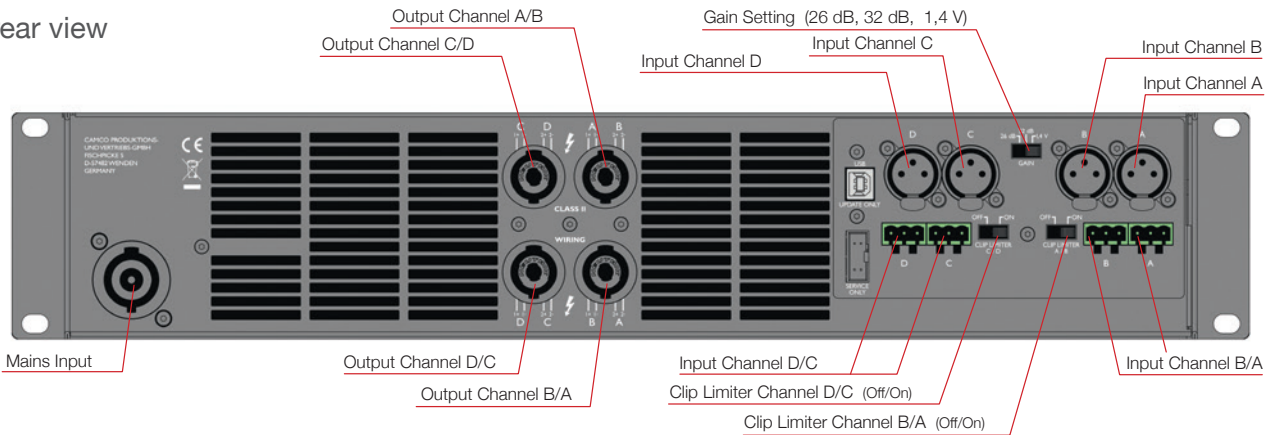
### New Technology

The development of the world's first DSP controlled Mains Analytic Power Supply  enables the Q-Power 14 to use the mains much more efficiently than before. The Mains Analytic Power Supply  makes the immense power of 3,500 W per channel possible and improves the impedance headroom down to 2 Ohms. The Mains Analytic Power Supply  provides a solid supply voltage to the amplifier output modules, independently from different or fluctuating mains voltages.

Via a USB connector on the rear, the power supply can be configured to different circuit breaker characteristics and tripping currents. The Q-POWER 14 Mains Analytic Power Supply  automatically chooses the best regulating algorithms for highest power performance for any mains voltage range (100 V, 120 V and 230 V).



rear view



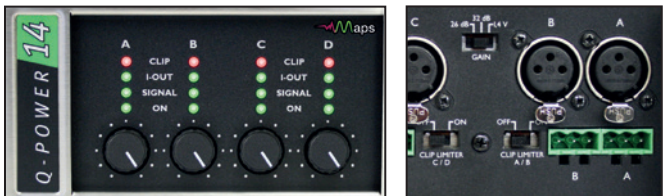
Amplifier Specifications		
Power per Channel All channels driven @ 1 kHz, THD ≤ 1%,	16 Ω	715 W
	8 Ω	1380 W
	4 Ω	2500 W
	2 Ω	2900 W
	Peak Power	3500 W
	70 V line operation	2650 W
	100 V line operation	3050 W

No. of Channels	4
Max. Output Voltage	± 157 V <sub>peak</sub>
Max. Output Current	± 52 A <sub>peak</sub>
typical values, may be subjected to component tolerance	
Output Circuitry	Class D

Audio Performance, Features and Dimensions	
Signal To Noise-Ratio 20 Hz - 20 kHz, 8 Ω load	> 115 dB (unweighted) > 118,5 dB (A-weighted)
Frequency Response @ 4 Ω load with 120 W output power	10 Hz - 20 kHz ± 0.1 dB
THD+N Over Frequency @ 4 Ω load with 120 W output power	20 Hz - 8 kHz < 0.1 %
Damping Factor 8 Ω load, 1,7 kHz and below	400
Input Impedance	15 kΩ balanced
Input Gain	selectable: 26 dB, 32 dB or 1,4 V input sensitivity
Protection Circuits	<b>SMPS:</b> Mains Overvoltage Detection, Mains Surge Overvoltage Protection, Mains Failure Detection, Overcurrent Protection, Thermal Protection. <b>Amplifier:</b> Temperature Dependent SOA Protection, DC Protection, Thermal Protection, Short Circuit Protection, High Frequency Protection.
Minimum Load Impedance	Z <sub>min</sub> = 2 Ω
Limiters	Clip Limiter (individually selectable for channels A+B and C+D)
Fan	3 temperature dependent speed-controlled axial fans
Indicators	LED for ON, Signal/Protect, Output Current and Clip
Input Connectors	3-pin XLR, female per channel, pin 2 = in phase / Phoenix Connectors, pin 1 = in phase, pin 2 = GND
Output Connectors	Four 4-pole SPEAKON® connectors for each output channel (bi-amping possible for channels A/B and C/D)
Power Consumption	All channels driven at 375 W output : 2200 W / Amp switched off: < 2 W / Amp switched on, no signal: 130 W
Net Weight / Shipping Weight	13,8 kg / 30,4 lbs   Shipping: 17 kg / 37,5 lbs
Dimensions / Shipping Dimensions	(W x H x D) 483 x 88,1 x 452 mm / 19 x 3,5 x 17,8 inches (19", 2U)   610 x 133 x 540 mm / 24 x 5,2 x 21,3 inches
Accessories	Gain pot security cover   mini-maps

**Straight Forward Approach**

CAMCO have paid attention to market requirements for a straight forward approach. In introducing the Q-Power Series CAMCO identified key elements, such as power output, loading, AC power supply flexibility and connectivity. The result is four, outstanding power output options, across four channels, in a 19", 2 RU rugged case design, suitable for professional installations, theatre and live sound application.



Along with ABCD channel identification, LED status indicators above each potentiometer show: Amp ON, SIGNAL present (red if in protect mode), OUTPUT current and CLIP status. All status information is clear and precise. A gain control security cover is also provided. Flexible connectivity as standard: the input section is supplied with both XLR and Phoenix connectors, while the output section is supplied with four SpeakON connectors.



Specifications subject to technical alterations without prior notice.