

CM™ Series

Professional Installation Amplifiers



CM 2208 | CM 2204



Description

CM™ Series power amplifiers feature a unique amplification architecture providing a host of user benefits including simplified operation and use in multiple applications, as well as unsurpassed sonic quality and flexible power.

CM Series products comprise four-channel (CM 2204-AB/DV) and eight channel (CM 2208-AB/DV) units (channels are independent). A host of applications benefit from the use of multiple channel amplification, including bars, clubs and restaurants; video conferencing systems; hotels and motels; industrial installations; and retail stores, among others. One amplifier for multiple applications provides a cost-effective solution, expansion opportunities and unparalleled flexibility.

Features

- 4- or 8-channel power amp systems—220 Watts RMS per channel (70 Volts)
- Low-Z (4 or 8 Ohms) or 70 Volt output
- Input connectors: balanced three-pin Phoenix
- Output connectors: two-pin Phoenix
- Full range of protection circuits including ACL™, IGM™ and Autoramp™
- 16-gauge steel chassis
- 2U rack space height
- Protection Circuits / Safety including: ACL, IGM, and Autoramp
- Front-to-side cooling
- Front-panel LED indicators per channel: signal, clip, and protect
- Input and output mating connectors are included



CM 2208



CM 2204



	CM™ 2208	CM™ 2204
Rated power bridge mode 8 ohms:	320 watts	320 watts
Rated power bridge mode 140V:	460 watts	440 watts
Rated power (1 x 4 Ohms):	160 watts	160 watts
Rated power (1 x 8 Ohms):	240 watts	245 watts
Rated power 70.7V (24 Ohms):	230 watts	220 watts
Rated power (8 x 4 Ohms):	150 watts	155 watts
Rated power (8 x 8 Ohms):	210 watts	240 watts
Rated power (8 x 70.7V):	170 watts	180 watts
Minimum Load Impedance:	4 ohms	4 ohms
Frequency Response (HPF off):	5 Hz - 20 kHz; -1 dB at 1 watt (8 ohm load)	5 Hz - 20 kHz; -1 dB at 1 watt (8 ohm load)
T.H.D.:	<0.02% @ rated power, 1kHz (70.7V)	<0.02% @ rated power, 1kHz (70.7V)
Input CMRR:	>-60 dB @ 1 kHz	>-60 dB @ 1 kHz
Crosstalk.:	>-60 dB @ 1 kHz at rated power @ 8 Ohms	>-60 dB @ 1 kHz at rated power @ 8 Ohms
Hum and Noise:	>-97 dB, below rated output, 22Hz - 22kHz	>-97 dB, below rated output, 22Hz - 22kHz
Damping Factor (8 ohms):	>200:1 @ 20 Hz - 1 kHz	>200:1 @ 20 Hz - 1 kHz
Input Sensitivity:	.775V (0 dBu setting)	.775V (0 dBu setting)
Voltage Gain:	x40 or 0 dBu (x90)	x40 or 0 dBu (x90)
High Pass Filter	70 Hz, 3rd order HPF	70 Hz, 3rd order HPF
Input Impedance:	20K Ohms balanced, 10K Ohms unbalanced	20K Ohms balanced, 10K Ohms unbalanced
Current Draw @ 1/8 Power:	4.0 amps	2.3 amps
Current Draw @1/3 Power:	8.0 amps	4.4 amps
Idle:	<2 Amp	<1 Amp
Thermal emission @ 1/8 Power:	724 BTU/hr	473 BTU/hr
Thermal emission @ 1/3 Power:	947 BTU/hr	621 BTU/hr
Class:	D	D
Cooling:	Variable speed, front panel mounted, front-to-side airflow	
CM 2208 Controls:	8 channel input signal attenuators, 8 channel HPF select switches, 8 channel gain select switches	
CM 2204 Controls:	4 channel input signal attenuators, 4 channel HPF select switches, 4 channel gain select switches	
CM 2208 Indicators:	8 clip, 8 signal, 8 protect, 1 power	
CM 2204 Indicators:	4 clip, 4 signal, 4 protect, 1 power	
Protection (per channel):	Over-temperature, DC, on/off transients, subsonic, short-circuit, over-current	
CM 2208 Connectors Input:	Eight 3-position Euro-style detachable terminal blocks	
CM 2204 Connectors Input:	Four 3-position Euro-style detachable terminal blocks	
CM 2208 Connectors Output:	Eight 2-position Euro-style detachable terminal blocks	
CM 2204 Connectors Output:	Four 2-position Euro-style detachable terminal blocks	
Construction	16-gauge steel-reinforced chassis with 12-gauge rack ears	
Dimensions:	3.48" x 19.00" x 17.05" 8.84 cm x 48.26 cm x 43.31cm	3.48" x 19.00" x 17.05" 8.84 cm x 48.26 cm x 43.31cm
Gross Weight:	38.0 lbs (17.2 kg)	35.5 lbs (16.1 kg)
Net Weight:	36.5 lbs (16.5 kg)	34.0 lbs (15.4 kg)
Power Requirements:	120 VAC 60 Hz (AB), 230 VAC 50 Hz (DV)	

* repetitive 1kHz cycles 50ms onset of clip and 50ms at 1/8 power

Architect's & Engineer's Specifications

Crest Audio® CM™ Series Power Amplifiers

The multi-channel power amplifiers shall be available in hardware configurations of eight and four analog input channels and powered output channels. Each channel output shall be individually configurable as low impedance or 70-volt constant voltage outputs. Adjacent pairs of channels shall be bridgeable. Input signals shall be connected via eight or four 3-position Euro-style detachable terminal blocks, and may be configured as balanced or unbalanced inputs. Amplified outputs shall be connected via eight or four 2-pin Phoenix connectors.

The power amplifier sections shall be of a highly efficient amplifier design yielding 220 watts per channel for the four-channel configuration and the eight-channel configuration into 8-ohms, and 220 watts per channel at 70.7 volts. Bridged channel output shall be 320 watts per bridged channel pairs for both the four-channel configuration and the eight-channel configuration into 8-ohms or 440 watts per channel at 140 volts. Frequency response at 1 watt under an 8-ohm load shall be 5 Hz to 20 kHz.

Attenuation controls for each channel shall be located on the rear panel. A selection switch shall be provided for each channel on the rear panel to allow the enabling or bypass of a high-pass filter per channel. A gain selection switch shall be provided per channel. A rear panel circuit breaker shall be provided to protect the power supply section of the amplifier. Indicator lamps (LEDs) shall be displayed on the front panel of the amplifier chassis indicating signal clipping, signal presence and protection conditions per channel.

Each channel shall be protected from over-temperature, DC, turn on/off transients, subsonic, short-circuit and over-current conditions.

Each of the amplifiers shall support the connection of an array of matching transformers to convert the usable output voltage for constant voltage systems from 70.7V to 100V or 50V for international systems.

Each of the amplifier chassis shall be constructed of 16-gauge steel with 12-gauge steel rack ears. Each chassis shall be 2 EIA rack spaces, with the dimensions of 3.50 inches (8.84cm) high by 19.00 inches (48.26cm) wide by 17.05 inches (43.31cm) deep. The four-channel amplifier shall weigh 34 to 35.5 pounds (15.4 to 16.1 kg). The eight-channel amplifier shall weigh 36.5 to 38 pounds (16.5kg to 17.2kg).

The multi-channel power amplifiers shall be the Crest Audio CM2208 and CM2204 power amplifiers.



Features and specifications subject to change without notice.

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