Ci™ Series

Multi-Channel Power Processing Amplifiers

Ci 20x8 | Ci 30x4

Description

The Ci™ Series amplifiers are designed to drive low-impedance or 70-volt speaker loads without bridging between channels. Bridged operations are supported for additional power into 8-ohm loads or 140-volt operation.

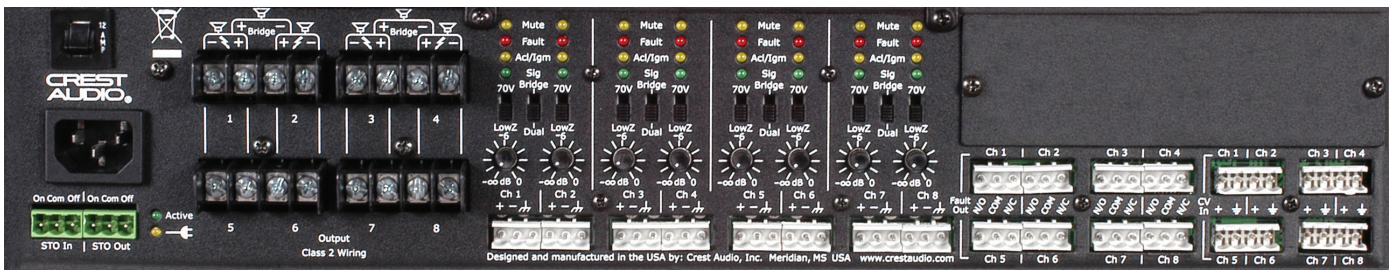
As with all Crest Audio products, sonic performance is of primary importance. In addition, high-efficiency, comprehensive load protection, and compact packaging have been achieved in the Ci design.

The Ci Series amplifers incorporate Crest Audio's tried-and-true modular approach to intelligent amplifier configuration. Through the provision of a single module bay, these amplifiers come with a module that facilitates load monitoring, digital audio delivery, and Crest Audio's NexSys networking.

A full complement of features and options makes this series very versatile, whether powering airport systems, restaurant audio or a myriad of other applications.

Features

- **Four- or Eight-channel versions available (100-volts isolated outputs with optional accessories)**
- **Individual channels may be selected as low impedance or 70 volt**
- **Tour Class® protection**
- **Front and rear panel indicators for amplifier status**
- **Variable-speed fan**
- **Sequential turn-on standard**
- **Euro-style input connectors**
- **Barrier strip output connectors**
- **One controlled-voltage input per channel standard**
- **One fault relay per channel standard**
- **Module bay provided to input Nx module bay accessories for full amplifier control and monitoring via NexSys® 4 software or MediaMatrix® product and digital audio distribution**
- **EN60849 and ANSI60849 compliant with optional accessories**



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Commercial Audio

Ci™ Series Amplifiers

Specifications

Power Ratings	Dual		Bridged	
	8 ohm	70 volt	16 ohm	140 volt
Ci 20 x 8	200 w	200 w	400 w	400 w
Ci 30 x 4	300 w	300 w	600 w	600 w

1kHz, 0.02% THD + N Power figures are watts per channel, all channels driven.

Frequency response 1W @ 8 ohms	5 Hz to 20 kHz, +/-1 dB
Power bw rated power @ 4 ohms, 1% THD+N	20 Hz to 20 kHz, +/-1 dB
THD + N	<0.02% @ rated power (@ 70 volt, 1kHz)
Damping factor	200:1 @ 8 ohms (20 Hz to 100 Hz)
Input cMRR	>60 dB @ 1kHz
Gain / input sensitivity @ 70 volts	1.4 volts for full rated output power (70V sensitivity)
Gain / input sensitivity @ 8Ω	1.0 volts for full rated output power (Low Z switch selected)
Input impedance	>20 kohms balanced, >10 kohms unbalanced
Hum and noise	> -97 dB, A-weighted below rated power @ 8 ohms
Crosstalk	> -60 dB below max rated power (1 kHz)power supplyLinear with toroid transformer

	Ci 30x4	Ci 20x8
Circuit breaker rating (120V/230V)	6A / 3A	12A / 6A
Current draw (120VAC) 1/8 power, 70 volts	3A	5A
1/3 power, 70 volts	6A	10A
At idle	<1.0A	<2.0A
Thermal emissions 1/3 Power, 70 volts btu / hr	621	947

Cooling	Front to side via variable speed fan
Input connectors	balanced three-pin Euro-style (rear panel)
Output connectors	barrier strips (rear panel)
Power sequence connectors	2 X three-pin Euro-style (rear panel)
Fault connectors	three-pin Euro-style (rear panel)
Control voltage connectors	two-pin Euro-style (rear panel)
Controls	front panel: three-position On / Off / Remote power switch
	rear panel: stepped attenuators, 70V/Low Z switch, dual/bridged switch, circuit breaker
LED indicators	front and rear panels: Signal, ACL/IGM, Protect, Active, Power Present
Construction	16-gauge steel chassis, double thickness in rack ear areasdimensions (h x w x d)3.5" x 19" (front panel) 17" (chassis) x 17.3" (18.55" to rack ears)

Crest Audio reserves the right to make improvements in manufacturing or design which may affect specifications.

Architect's & Engineer's Specifications

Crest Audio Ci™ 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 selectable as low impedance or 70-volt constant voltage outputs. Adjacent pairs of channels shall be bridgeable. Input signals shall be connected via eight 3-position Euro-style detachable terminal blocks, and may be configured as balanced or unbalanced inputs. Amplified outputs shall be connected via four 4-position barrier strip terminal blocks with screw terminals.

The power amplifier sections shall be of a highly efficient amplifier design yielding 300 watts per channel for the four-channel configuration and 200 watts per channel for the eight-channel configuration into 8-ohms or 70.7 volts. Bridged channel output shall be 600 watts per bridged channel pairs for the four-channel configuration and 400 watts per bridged channel pairs for the eight-channel configuration into 16-ohms or 140 volts. Frequency response at 1 watt under an 8-ohm load shall be 5 Hz to 20 kHz.

Each model configuration shall be capable of accepting and hosting either of two networked modules to support connection of CobraNet® or Dante™ networked audio transport streams of four or eight channels. Audio, control and monitoring signals shall be conducted to and from the power amplifier via Ethernet connections.

Attenuation controls for each channel shall be located on the rear panel, along with output impedance and channel bridging selection switches. Control voltage inputs shall be provided for each channel to allow for external gain control. Fault outputs on each channel shall be provided to allow monitoring of the operation of individual channels. Power sequencing connections shall be provided via three-position Euro-style connectors. Instantaneous Gain Modulation shall provide overload protection for each channel.

The multi-channel power amplifiers shall be the Crest Audio Ci 20x8, Ci 20x8CN, Ci 20x8D, Ci 30x4, Ci 30x4CN and Ci 30x4D power amplifiers.