

CC™ 1800 Professional Amplifier



Crest Audio CC Series amplifiers are designed to achieve unsurpassed sonic performance and long-term reliability under extreme stress in touring or fixed installation applications. Absolute sonic accuracy is the hallmark of every Crest amplifier. Bass is solid and defined to the limits of audibility with ample current reserves. Wide-bandwidth output devices ensure detailed, transparent high frequency response. And, thanks to Crest's exclusive IGM™ circuit, the CC Series will drive 2Ω loads safely without compromising performance.

Construction and Quality Control

Designed for years of reliable, flawless operation under rigorous use. The CC Series amplifiers offer the sonic superiority and unsurpassed reliability for which Crest Audio is famous, while remaining surprisingly compact. Advanced technology and extensive protection circuitry allow operation with greater efficiency into difficult loads and power conditions. Each assembly is pre-tested, and the assembled CC receives a rigorous "hot room" burn-in before thorough final checkout on precision test equipment.

CC 1800 Features

- Toroidal power transformer
- Dual, variable speed fans on CC 2800, CC 4000, and CC 5500 single fan on model CC 1800
- Balanced XLR inputs
- Speakon® and 5-way binding post speaker outputs
- Mode selector switch for stereo, parallel and bridged-mono operation
- Input sensitivity selection
- Recessed, stepped attenuators
- Front panel circuit-breaker switch
- Five year warranty*

TOURCLASS/PROTECTION CIRCUITS

ACL™ (Active Clip Limiting) prevents speaker damage by providing gentle gain reduction when the signal approaches the clipping threshold.

IGM™ (Instantaneous Gain Modulation) monitors speaker loads to detect conditions that may overstress output devices. This allows safe operation into nominal 2Ω speaker loads.

AUTORAMP™ gradually increases gain to the attenuator level settings when the amplifier is turned on. This prevents abrupt turn-on level.

Other protection features include: short circuit, DC voltage, comprehensive thermal management and current in-rush turn-on/off; transient sub-sonic input.

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Rated power bridge mode 4 Ohms:	1,850 Watts @ 1 kHz at <0.1% T.H.D.
Rated power bridge mode 8 Ohms:	1,425 Watts @ 1 kHz at <0.1% T.H.D.
Rated power (2 x 2 Ohms):	900 Watts per channel @ 1 kHz <0.1% T.H.D. both channels driven
Rated power (2 x 4 Ohms):	700 Watts per channel @ 1 kHz at <0.05% T.H.D. both channels driven
Rated power (2 x 8 Ohms):	450 Watts per channel @ 1 kHz at <0.025% T.H.D. both channels driven
Rated power (1 x 2 Ohms):	950 Watts @ 1 kHz at <0.1% T.H.D.
Rated power (1 x 4 Ohms):	775 Watts @ 1 kHz at <0.05% T.H.D.
Rated Power (1 x 8 Ohms):	475 Watts @ 1 kHz at <0.025% T.H.D.
Minimum load impedance:	2 Ohms
Maximum RMS voltage swing:	73 Volts
Frequency response:	10 Hz - 100 kHz; +0, -3 dB at 1 Watt
Power bandwidth:	10 Hz - 30 kHz; +0, -3 dB at rated 525 Watts 8 Ohm power
T.H.D. (2 x 2 Ohms):	<0.2% @ 700 Watts per channel from 20 Hz to 20 kHz
T.H.D. (2 x 4 Ohms):	<0.1% @ 600 Watts per channel from 20 Hz to 20 kHz
T.H.D. (2 x 8 Ohms):	<0.1% @ 425 Watts per channel from 20 Hz to 20 kHz
Input CMRR:	>-75 dB @ 1 kHz
Voltage gain:	x 40 (32 dB) or x 20 (26 dB)
Crosstalk:	>-55 dB @ 1 kHz at rated power @ 8 Ohms
Hum and noise:	>-106 dB, "A" weighted referenced to rated power @ 8 Ohms
Slew rate:	>35V/us
Damping factor (8 Ohms):	>150:1 @ 20 Hz - 1 kHz
Phase response:	+6 to -12° from 20 Hz to 20 kHz
Input sensitivity:	(x 40) 1.32 Volts ±3% for 4 Ohm rated power, 2 Volts ±3% for 1 kHz 2 Ohm rated power
Input sensitivity:	(x 20) 1.06 Volts ±3% for 4 Ohm rated power, 4 Volts ±3% for 1 kHz 2 Ohm rated power
Input impedance:	15 k Ohms balanced, 7.5 k Ohms unbalanced
Current Draw @ 1/8 power:	1,000 Watts @ 2 Ohms; 685 Watts @ 4 Ohms
Current Draw @ 1/3 power:	2,340 Watts @ 2 Ohms, 1,650 Watts @ 4 Ohms
Thermal Emissions @ 1/3 power:	2,631 @ 4 Ohms bridged
Class:	Switched rail, H
Country of manufacture:	China

Cooling: Back to front via 2 variable speed fans

Controls: Twin recessed stepped attenuators, circuit breaker power switch, mode select, gain select

Indicator LEDs: 2 ACL (clip limiting), 2 signal presence, 2 temp limit, 2 active

Protection: Thermal, DC, turn-on bursts, subsonic, incorrect loads

Connectors: Combi 1/4" & XLR, Speakon and Binding Post speaker output, 120 Volt 15 amp mains, 240/230 Volt 20 amp IEC mains

Construction: 16 ga. steel with cast front panel

Dimensions: 89 mm x 482.6 mm x 377.8 mm + 31.8 mm for rear support ears and connectors (3.5" x 19" x 14.875" + 1.25")

Net weight: 14.8 kg. (32.6 lbs.), Gross weight: 15.9 kg. (35 lbs.)

Warranty Five years parts and labor

All power measurements made at 120 VAC. 2 Ohm sine wave power is time limited by magnetic circuit breaker.

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



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38,13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005



Commercial Audio

Features and specifications subject to change without notice.

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