

www.crestaudio.com

CC[™] 2800 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^{TM} 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 2800 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

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

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

AUTORAMPTM 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: 2,800 Watts @ 1 kHz at <0.1% T.H.D. Rated power bridge mode 8 Ohms: 2,000 Watts @ 1 kHz at <0.1% T.H.D.

Rated power (2 x 2 Ohms): 1,400 Watts per channel @ 1 kHz <0.1% T.H.D. both channels driven Rated power (2 x 4 Ohms): 965 Watts per channel @ 1 kHz at <0.05% T.H.D. both channels driven Rated power (2 x 8 Ohms): 595 Watts per channel @ 1 kHz at <0.025% T.H.D. both channels driven

1,850 Watts @ 1 kHz at <0.1% T.H.D. Rated power (1 x 2 Ohms): Rated power (1 x 4 Ohms): 1,150 Watts @ 1 kHz at <0.05% T.H.D. Rated Power (1 x 8 Ohms): 665 Watts @ 1 kHz at <0.025% T.H.D.

Minimum load impedance: 2 Ohms Maximum RMS voltage swing: 82 Volts

10 Hz - 100 kHz;+0,-2 dB at 1 Watt Frequency response:

Power bandwidth: 10 Hz - 30 kHz; +0, -3 dB at rated 525 Watts 8 Ohm power T.H.D. (2 x 2 Ohms): <0.15% @ 1,150 Watts per channel from 20 Hz to 20 kHz T.H.D. (2 x 4 Ohms): <0.1% @ 880 Watts per channel from 20 Hz to 20 kHz T.H.D. (2 x 8 Ohms): <0.1% @ 560 Watts per channel from 20 Hz to 20 kHz

Input CMRR: >-65 dB @ 1 kHz

x 40 (32 dB) or x 20 (26 dB) Voltage gain:

Crosstalk: >-65 dB @ 1 kHz at rated power @ 8 Ohms

Hum and noise: >-111 dB, "A" weighted referenced to rated power @ 8 Ohms

Slew rate: >15V/us

>500:1 @ 20 Hz - 1 kHz Damping factor (8 Ohms): +5 to -15° from 20 Hz to 20 kHz Phase response:

(x 40) 1.7 Volts $\pm 3\%$ for 4 Ohm rated power, 2 Volts $\pm 3\%$ for 1 kHz 2 Ohm rated power Input sensitivity: (x 20) 1.36 Volts $\pm 3\%$ for 4 Ohm rated power, 4 Volts $\pm 3\%$ for 1 kHz 2 Ohm rated power Input sensitivity:

Input impedance: 15 k Ohms balanced, 7.5 k Ohms unbalanced Current Draw @ 1/8 power: 1,250 Watts @ 2 Ohms; 880 Watts @ 4 Ohms Current Draw @ 1/3 power: 2,905 Watts @ 2 Ohms, 2,200 Watts @ 4 Ohms

3,579 @ 4 Ohms bridged Thermal Emissions @ 1/3 power:

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

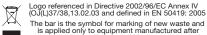
Dimensions: 89 mm x 482.6 mm x 377.8 mm + 31.8 mm for rear support ears and connectors (3.5" x 19" x 14.875" + 1.25")

Net weight: 18.05 kg. (39.8 lbs.), Gross weight: 19.23 kg. (42.4 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 specifitions. Crest Audio Inc.





The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005