



CC 1800/2800/4000 Power Amplifiers



(CC 2800 shown)

Power Specifications		8 Ω stereo*	4 Ω stereo*	2 Ω stereo*	4 Ω bridged**
	CC 4000	800 W	1,350 W	2,000 W	4,000 W
	CC 2800	595 W	965 W	1,400 W	2,800 W
	CC 1800	450 W	700 W	900 W	1,850 W

* 1kHz @ <0.05% T.H.D+N / **1KHz @ <0.1% T.H.D+N

FEATURE OVERVIEW:

- Toroidal power transformer
- Dual, variable speed fans on CC 2800 and CC 4000, 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 2 Ω 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 and subsonic input.

DESCRIPTION

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 2 Ω loads safely without compromising performance.



Product Specifications

CC™ Series

				CC 1800		CC 2800		CC 4000	
Stereo Power:		8Ω	450 W		595 W		800 W		
		4Ω	700 W		965 W		1,350 W		
		2Ω	900 W		1,400 W		2,000 W		
Bridged Mono Power:		4Ω	1,850 W		2,800 W		4,000 W		
Output Voltage RMS		73 V		82 V		93 V			
8Ω and 4Ω Stereo Power ratings @1kHz, <0.05% THD+N both channels driven 2Ω stereo & 4Ω Bridged Mono Power ratings @1 kHz, <0.1%THD+N									
Frequency Response			10 Hz – 100 kHz; +0, -2 dB at 1 watt						
Power Bandwidth			10 Hz – 35 kHz; +0, -3 dB at rated 4Ω power						
Damping factor 8Ω @ 20 Hz to 1 kHz			150:1		500:1		500:1		
Input CMRR @ 1 kHz			> -75 dB		> -65 dB		> -65 dB		
Gain			selectable between x40 (32 dB) and x20 (26 dB)						
Input Sensitivity (x40)			1.32 V +/- 3% for 1 kHz, 2Ω rated power		1.7 V +/- 3% for 1 kHz, 4Ω rated power		1.88 V +/- 3% for 1 kHz, 4Ω rated power		
Input Impedance			15kΩ Balanced						
Hum and Noise A-weighted @ Rated power 8Ω			-106 dB		-111 dB		-112 dB		
Crosstalk 1kHz @ rated power 8Ω			-55 dB		-65 dB		-65 dB		
Class			modulated rail, H		switched rail, H		switched rail, H		
Power Supply			Linear with toroid transformer						
Current Draw @ 120 VAC	1/8 power	8Ω	400 W	3.4 A	570 W	4.75 A	720 W	6 A	
		4Ω	685 W	5.71 A	880 W	7.34 A	1,185 W	9.86 A	
		2Ω	1,000 W	8.34 A	1,250 W	10.41 A	1,825 W	15.21 A	
	1/3 power	8Ω	1,000 W	8.34 A	1,355 W	11.30 A	1,835 W	15.30 A	
		4Ω	1,650 W	13.75 A	2,220 W	18.5 A	2,975 W	24.8 A	
		2Ω	2,340 W	19.5 A	2,905 W	24.3 A	4,535 W	37.8 A	
Thermal Emissions 1/3 power, 4Ω BTU/hr			2631		3579		4545		
Cooling			Back to front via 1 variable speed fan				Back to front via 2 variable speed fans		
Input connectors			Balanced female XLR						
Output connectors			Speakon® connectors and five-way binding post						
Controls	front panel:		twin recessed stepped attenuators, circuit breaker/power switch						
	rear panel:		mode select, gain select						
LED indicators			Signal presence, ACL™ (Active clip limiting), Active status, Temp						
Construction			16-gauge steel chassis, cast aluminum front panel						
Dimensions			3.5" x 19" x 14.875" (16.125" to rack ears)		88.9 mm x 482.6 mm x 377.8 mm (409.6 mm to rack ears)				
Weight			32.6 lbs. (14.8 kg)		39.8 lbs. (18.05 kg.)		43.3 lbs. (19.64 kg.)		

Architects' & Engineers' Specifications:

The power amplifier shall consist of 2 channels. Each channel will deliver a minimum of (450 / 595 / 800) watts at 8 ohms, (700 / 965 / 1,350) watts at 4 ohms, (1,850 / 2,800 / 4,000) watts at 2 ohms, 20 Hz – 20 kHz. In Bridged mono mode, it will deliver a minimum of (1,850 / 2,800 / 4,000 W) at 4 ohms, 20Hz – 20 kHz. It shall weigh (32.6 / 39.8 / 43.3) lbs. The amplifier shall incorporate protection circuitry against output short circuits, DC voltage on outputs, thermal overload and load protection due to any form of amp failure. It will include impedance sensing circuitry, a RMS clip limiter and Autoramp signal control. The amplifier shall have a sensitivity of 1.32 / 1.7 / 1.88 volts (x40) at the input, which will deliver full rated output power in any output configuration. Gain can be changed to x20. The hum and noise level shall be greater than (-106 dB / -111 dB / -112 dB) "A" weighted. The amplifier shall have a class H output stage with a linear power supply. The frequency response shall be greater than 10 Hz – 35 kHz +0, -3 dB for the CC 1800 and 10 Hz - 50 kHz, +0, -3 dB for the CC 2800/4000 at full rated output power @ 4 ohms, 1% THD. The amplifier will operate at either 120 VAC, 60 Hz (safe operating range 100-132 VAC) or at 230 VAC, 50 Hz (safe operating range 200-264), voltage selection determined at factory. Maximum current draw at 120 V shall be no greater than 15 A, both channels driven continuously into a 2 ohm load at 1/8 power. Front panel indicators shall include LED indicators for signal present, ACL (automatic clip limiting), Temp, and Active status. Front panel attenuators will be recessed and detented. Input connectors shall be XLR per channel. Output connectors shall be 5-way binding posts and Speakon, per channel. The packaging of the amplifier shall allow for standard rack mounting without requiring space between similar units as long as the rack is properly ventilated. Dimensions main chassis shall be 19" wide (482.6mm), 14.875" deep (482.6mm), 3.5" high. The amplifiers shall be designated the Crest Audio model CC 1800, CC 2800 and CC 4000.