CC 1800/2800/4000/5500
Power Amplifiers

CC™ SERIES

(CC 2800 shown)

Power Specifications	8Ω stereo*	4Ω stereo*	2Ω stereo*	4Ω bridged**
CC 5500	1,150 W	1,800 W	2,750 W	5,500 W
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, 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 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 2Ω loads safely without compromising performance.

CREST AUDIO®

Product Specifications

CC™ Series

		CC 1800	CC 2800	CC 4000	CC 5500
Stereo Power:	8Ω	450 W	595 W	800 W	1,150
	4Ω	700 W	965 W	1,350 W	1,800
	2Ω	900 W	1,400 W	2,000 W	2,750
Bridged Mono Power:	4Ω	1,850 W	2,800 W	4,000 W	5,500
Output Voltage RMS		73 V	82 V	93 V	115V
		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			10 Hz – 40 kHz; +0, -3 dB at 1 watt
Power Bandwidth		10 Hz – 35 kHz; +0, -3 dB at rated 4Ω power			10 Hz – 30 kHz; +0, -3 dB at rated 4Ω power
Damping factor 8Ω @ 20 Hz to 1 kHz		150:1	500:1	500:	400:11
Input CMRR @ 1 kHz		> -75 dB	> -65 dB	> -65 dB	>-63 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,	2.18 V +/- 3% for 1 kHz. 1.89 V +/- 3% for 1 kHz. 2 Ω rated power
Input Impedance		15kΩ Balanced	15kΩ Balanced	15kΩ Balanced	15kΩ Balanced, 7.5 k Ω Unbalanced
Hum and Noise A-weighted @ rated power 8Ω		-106 dB	-111 dB	-112 dB	-110 dB
Crosstalk 1kHz @ rated power 8Ω		-55 dB	-65 dB	-65 dB	-67 dB
Class		modulated rail, H	switched rail, H	switched rail, H	switched rail, H
Power Supply		Linear with toroid transformer			
Current Draw @ 120 VAC 1/8 power	8Ω	400 W	570 W	720 W	1,140
	4Ω	685 W	880 W	1,185 W	1,740
	2Ω	1,000 W	1,250 W	1,825 W	2,640
1/3 power	8Ω	1,000 W	1,355 W	1,835 W	2,690
	4Ω	1,650 W	2,220 W	2,975 W	4,150
	2Ω	2,340 W	2,905 W	4,535 W	5,920
A **Thermal Emissions 1/3 power, 4Ω BTU/hr**		2631	3579	4545	6000
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.)	47 lbs. (21.32 kg.)

Architects' & Engineers' Specifications:

The power amplifier shall consist of 2 channels. Each channel will delver a minimum of (450 / 595 / 800 / 1,150) watts at 8 ohms, (700 / 965 / 1,350 / 1,800) watts at 4 ohms, (1,850 / 2,800 / 4,000 / 5,500) 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 / 5,500 W) at 4 ohms, 20Hz – 20 kHz. It shall weigh (32.6 / 39.8 / 43.3 / 47) 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 / 2.18 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 / -110 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, 10 Hz - 50 kHz, +0, -3 dB for the CC 2800/4000 and - 10 Hz - 40 kHz; +0, -3 dB for the CC 5500 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 then 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, CC 4000 and CC 5500.

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