

CA™ 18



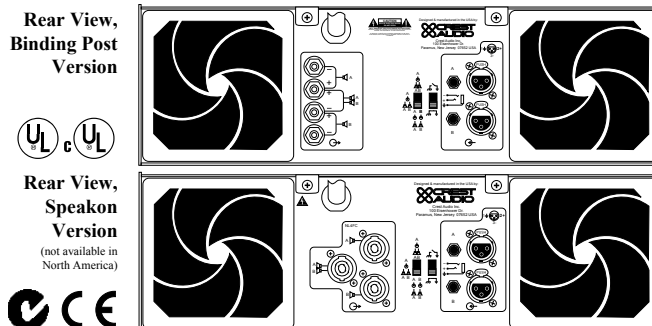
The Crest Audio CA18 professional power amplifier is designed to achieve unsurpassed sonic performance and long-term reliability— even when operating under extreme stress—in touring or fixed installation applications. Absolute sonic accuracy is the hallmark of every Crest amplifier. Bass is solid and defined to the limits of audibility, with ample current reserves delivered by an “over-engineered” power supply and advanced Class H circuitry. Wide-bandwidth output devices assure detailed, transparent high frequency response. And, thanks to Crest’s exclusive IGM circuit, the CA18 will drive 2 ohm loads safely without compromise in performance.

Construction and Quality Control

The CA18 is built exclusively in Crest’s own USA manufacturing facility, with internal components selected for premium quality and proven durability. Each modular subassembly is pre-tested, and the assembled CA18 receives a rigorous “hot room” burn-in before thorough final checkout on precision test equipment.

CA 18 Features

- Crest’s legendary “overbuilt” power supply
- Toroidal power transformer
- Latest generation of high-speed, wide-bandwidth output devices
- Twin tunnel cooling with back-to-front air flow
- Dual, variable speed DC fans
- Massive, extruded aluminum heat sinks
- Balanced XLR and 1/4-inch (TRS) inputs
- 5-Way binding post outputs or Speakon™ connectors (market dependent)
- Stereo/parallel/bridged mono mode selector switch
- Ground lift switch
- TourClass® protection circuits
- Input sensitivity selection
- Recessed, stepped attenuators
- Front panel circuit breaker switch
- Modular construction



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CA18 POWER AMPLIFIER SPECIFICATIONS

	1kHz, 0.03% THD+N	20Hz-20kHz, 0.1% THD+N
8Ω Stereo Power	1000W	950W
4Ω Stereo Power	1800W	1700W
2Ω Stereo Power	2500W	2400W
8Ω Bridged Mono Power	3600W	3400W
4Ω Bridged Mono Power	5000W	4800W
Max RMS Output Voltage (each channel)	99V	
Peak Output Voltage (each channel)	140V	
Frequency Response (+0 / -0.3dB, 1W/8Ω)	20Hz-20kHz, -3dB@150kHz	
Power Bandwidth (rated power at 4Ω, 1% THD+N)	20Hz-20kHz, -2dB/+2dB	
TourClass® Protection	ACL, IGM, AutoRamp, short circuit, DC voltage, turn-on/off transient, current inrush, sub/ultrasonic input.	
THD+N (rated power at 4Ω, 1kHz)	<0.03%	
SMPTE IMD (rated power at 8Ω, 60Hz & 7kHz)	<0.01%	
Damping Factor (10-400Hz at 8Ω)	800:1	
Input CMRR (1kHz)	> -70dB	
Input Sensitivity (rated power at 8Ω)	.775V standard (switchable; see table below)	
Voltage Gain	X115 standard (switchable; see table below)	
Input Impedance (balanced/unbalanced)	>20kΩ/>10kΩ	
Hum and Noise ("A" weighted, full power, 4Ω)	-115dB	
Crosstalk ("A" weighted, full power, 4Ω)	> -80dB	
Class	H	
Input Connectors (per channel)	Female XLR (pin 2+, switchable for pin 3+), TRS (tip+)	
Output Connectors (per channel) (market dependent)	Speakon connectors or 2 pair of 5-way output binding posts	
Filter Storage	144,000 µF	
Power Supply (factory configured)	100V-240V, 50-60Hz	
Idle Current Draw 120V	3.0A	
1/8 Power Curr. Draw (typical music, 120V/4Ω)	12.0A	
1/3 Power Curr. Draw (continuous music, 120V/4Ω)	25.0A	
Max Curr. Draw (circuit breaker rating, 120V/4Ω)	36.0A	
Thermal Emissions (1/8 Power, 4Ω)	7125 BTU/hr	
Thermal Emissions (1/3 Power, 4Ω)	9450 BTU/hr	
Cooling	Back-to-front via 2 rear panel mounted variable-speed DC fans (filters removable without tools)	
Controls	Front Panel: 2 attenuators; Rear Panel Switches: signal ground lift, mode select, gain select, XLR input pin 2/3 hot (+)	
LED Indicators (per channel)	Clip/Limit, Signal, Temp/DC, Active	
Construction	Steel chassis, 16 gauge. Double thickness in rack ear areas.	
Dimensions (Height x Width x Depth)	5.25" x 19" x 18" / 133 x 483 x 457mm	
Gross Weight, Net Weight	82 lbs. (37.23 kg.), 77 lbs. (34.96 kg.)	
Warranty	5 years*	

Architect's & Engineer's Specifications

The power amplifier shall have two channels. At 8 ohms, 20Hz - 20kHz, 0.1% THD+N, it shall deliver a minimum of 950 watts per channel. At 4 ohms, 20Hz - 20kHz, 0.1% THD+N, it shall deliver a minimum of 1700 watts per channel. In bridged mono mode with an 8 ohm load, 20Hz - 20kHz, 0.1% THD+N, it shall deliver a minimum of 3400 watts.

The amplifier shall have circuitry to protect itself from output short circuits, thermal overload or other adverse load conditions. The amplifier shall protect speaker loads from DC voltage on outputs. The amplifier shall have active clip limiting and impedance sensing circuitry. Output relays shall protect the speakers from amplifier failure.

Two rear panel mounted variable speed DC fans (filters detachable without tools) shall provide back to front air flow through the chassis.

Each channel shall have a standard (factory-set) input sensitivity of .775 volt, and shall be fitted with an external switch which allows the gain to be altered to X20 or X40. The hum and noise level shall be 115 dB below rated output, "A" weighted. SMPTE IMD shall be less than 0.01% at rated power, 60Hz and 7kHz. The amplifier shall have a class H output stage. The frequency response shall be 20Hz-20kHz, +0, -0.3dB (1W 8Ω).

The amplifier will operate at 100V-240V, 50-60 Hz AC (configured at factory). Maximum current draw shall not exceed 36 amperes at 120VAC (limited by front panel breaker).

Front panel indicators shall include Active, Protect, Signal, and Clip LED's for each channel. Front panel attenuators shall be recessed and detented.

Rear panel input connectors shall be female TRS, and XLR type, rear-panel switchable for pin 2 (factory setting) or pin 3 positive. Output terminations shall be Speakon connectors or 2 pair of 5-way output binding posts (market dependent). Rear panel switches for ground lift, Stereo/Parallel/ Bridged Mono mode, XLR polarity and gain selection shall also be provided.

A rear-panel AC mains cord having an appropriate AC plug for the intended operating voltage shall be provided.

The packaging of the amplifier shall allow for standard rack mounting without requiring space between similar units. Optional rack mount handles will be available. Dimensions shall be 19" (483mm) wide, 5.25" (133mm) high and 18" (457mm) deep. The amplifier shall weigh 77 lbs. (34.96 kg.) net, and shall be designated the Crest Audio model CA18.

Dealer-Configurable Gain/Sensitivity Options	Factory Standard	Gain	Sens
	Option 1	X115	.775V
	Option 2	X40	2.24V
		X20	4.47V



Commercial Audio



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

Features and specifications subject to change without notice.

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