Product Description

The Crest Audio CA2 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 AB output circuit design. Wide-bandwidth output devices assure detailed, transparent high frequency response.

Construction and Quality Control

The CA2 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 CA2 receives a rigorous “hot room” burn-in before thorough final checkout on precision test equipment.

CA2 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:
  - ACL (Active Clip Limiting) prevents speaker damage with gentle gain reduction at clip threshold.
  - IGM (Instantaneous Gain Modulation) monitors speaker loads to detect conditions that may overstress output devices.
  - AutoRamp gradually increases gain to attenuator setting level when amplifier is turned on.
  - TourClass also includes comprehensive thermal management, and short circuit, DC voltage, turn-on/off transient, current inrush and sub/ultrasonic input protection.
- Input sensitivity selection
- Recessed, stepped attenuators
- Front panel circuit breaker switch
- Modular construction
- Five-year warranty*

Power Specifications:

Other CA Series Power Amplifiers

<table>
<thead>
<tr>
<th>Power Specifications</th>
<th>8 Ohms Stereo</th>
<th>4 Ohms Stereo</th>
<th>8 Ohms Bridged</th>
</tr>
</thead>
<tbody>
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<td>1kHz, 0.01% THD+N</td>
<td>160 W</td>
<td>250 W</td>
<td>500 W</td>
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<tr>
<td>20Hz-20kHz, 0.1% THD+N</td>
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Figures are watts per channel, both channels driven.
# CA2 POWER AMPLIFIER

## SPECIFICATIONS

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### Power Figures

- **1kHz, 0.01% THD+N**
  - 8Ω Stereo Power: 160W
  - 4Ω Stereo Power: 250W
  - 8Ω Bridged Mono Power: 500W

- **20Hz-20kHz, 0.1% THD+N**
  - 8Ω Stereo Power: 150W
  - 4Ω Stereo Power: 200W
  - 8Ω Bridged Mono Power: 450W

### Frequency Response

- 20Hz-20kHz, -3dB@115kHz

### Power Bandwidth

<table>
<thead>
<tr>
<th>(rated power at 4Ω, 1% THD+N)</th>
<th>Power Supply (rated power at 8Ω, 60Hz &amp; 7kHz)</th>
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### TourClass® Protection

- ALC, IGM, AutoRamp, short circuit, DC voltage, turn-on/off transient, current inrush, sub/ultrasonic input.

### Input Impedance

- Balanced/unbalanced: 100kΩ

### Output Connectors

- 6-way output binding posts or Speakon connectors (market dependent).

### Power Supply (factory configured)

- 100V-240V, 50-60Hz

### Idle Current Draw

- 120V: 1.2A

### 1/8 Power Curr. Draw

- 120V: 3.25A

### 1/3 Power Curr. Draw

- Continuous: 120V: 5.5A

### Thermal Emissions (1/8 Power, 4Ω)

- 1191 BTU/hr

### Filter Storage

- 20,000 μF

### Input Connectors (per channel)

- Female XLR (pin 2+, dealer config. for pin 3+), TRS (tip+)

### Output Connectors (per channel)

- 5-way output binding posts or Speakon connectors (market dependent)

### Controls

- Front Panel: 2 attenuators
- Rear Panel: signal ground lift switch, mode select switch

### LED Indicators (per channel)

- Clip/Limit, Signal, Temp/DC, Active

### Construction

- Steel chassis, 16 gauge. Double thickness in rack ears areas.

### Dimensions (Height x Width x Depth)

- 3.5” x 19” x 18” / 89mm x 483mm x 457mm

### Gross Weight, Net Weight

- 38 lbs. / 17.25 kg., 33 lbs. / 14.98 kg.

### Warranty

- 5 years

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### Architect’s & Engineer’s Specifications

The power amplifier shall have two channels. At 8 ohms, 20Hz - 20kHz, 0.1% THD, it shall deliver a minimum of 150 watts per channel. At 4 ohms, 20Hz - 20kHz, 0.1% THD, it shall deliver a minimum of 200 watts per channel. In bridged mono mode with an 8 ohm load, 20Hz - 20kHz, 0.1% THD, it shall deliver a minimum of 450 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 0.775 Volts, and shall be fitted with an internal jumper which allows the gain to be altered to X20 or X40. The hum and noise level shall be 105 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 AB output stage. The frequency response shall be 20Hz-20kHz, +0 -0.3dB (1W/Ω).

The amplifier will operate at 100V-240V, 50-60 Hz AC (configured at factory). Maximum current draw shall not exceed 9 amperes at 120VAC (limited by front panel breaker for bench tests).

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, internally dealer-configurable for pin 2 (factory setting) or pin 3 positive. Output terminations shall be 5-way output binding posts or Speakon output connectors (market dependent). A ground lift switch and a Stereo/Parallel/Bridged Mono mode operation switch shall be provided.

A rear-panel IEC AC mains socket (with power cord) or single mode operation switch 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, 3.5” (89mm) high and 18” (437mm) deep. The amplifier shall weigh 33 lbs. (14.98 kg) net, and shall be designated the Crest Audio model CA2.