

CDI SERIES

CDi 4000

Architectural & Engineering Specifications

CDi 4000

The Crown® CDi 4000 power amplifier shall be a solid-state two-channel model with a switch-mode universal power supply.

The outputs shall be usable as dual or bridged-mono modes of operation. The bridged-mono mode shall bridge the outputs to provide increased output voltage.

Front panel controls and indicators shall include the following:

Level: Detented rotary level control, one per channel.

Power Switch: On/off switch applies AC power to the amplifier.

Sel/Prev/Next Buttons: Three buttons near the LCD screen shall be used to access menu items and front panel lockout.

LCD Screen: Backlit liquid crystal display shows speaker presets and signal processing.

Signal Indicator: Green LED, one per channel, illuminates when a very low-level signal is present at input.

-10 Indicator: Green LED flashes when output signal exceeds -10 dB below clip.

-20 Indicator: Green LED flashes when output signal level exceeds -20 dB below clip.

Ready Indicator: Green LED, one per channel, illuminates when the amplifier is ready to produce audio.

Clip Indicator: Red LED, one per channel, turns on at the threshold of audible distortion.

Temp Indicator: Red LED, one per channel, illuminates under excessive temperature conditions.

Power Indicator: Blue LED illuminates when the amplifier has been turned on and has power.

Rear panel controls and connectors shall include the following:

AC Line Connector: NEMA 5-15P (15A).

Input Connector: Two 3-pin removable Phoenix-type connectors each accept a balanced line-level input signal.

Output Connectors: 4-position barrier strip with connectors for dual loudspeakers or bridge-mono loudspeaker. Dual connectors shall work with 2-8 ohm or 70V loads. Bridge-mono connectors shall work with 4-8 ohm or 140V loads.

HiQnet USB Connector: Type B, connects to a USB port on a PC.

The amplifier shall have the following specifications:

Output Power with 0.5% THD: 2 ohm Dual (per channel): 1,600W with 1% THD,

4 ohm Dual (per channel): 1,200W, 8 ohm Dual (per channel) 650W, 4 ohm

Bridge-Mono: 3,200W with 1% THD, 70V Dual (per channel): 1,000W, 140V

Bridge-Mono: 2,000W.

Voltage Gain at 1kHz, 8 ohm rated output: 34.2 dB.

Frequency Response: +0/-1 dB from 20 Hz to 20 kHz at 1 watt into 4 ohms.

Load Impedance: Safe with all types of loads. Rated for 2 to 8 ohms in Dual mode, 4 to 16 ohms in Bridge-Mono mode.

Sensitivity: 1.4V.

Signal to Noise Ratio (below rated 8-ohm power at 1 kHz): 100 dB (A weighted).

Damping Factor: Better than 500 from 20 Hz to 400 Hz.

Crosstalk: > 70 dB below rated power, 20 Hz to 1 kHz.

Input Stage: Input is electronically balanced and employs precision 1% resistors.

Input Impedance (nominal): 20 k ohms, balanced; 10 k ohms, unbalanced.

Maximum Input Signal: +22 dBu typical.

AC Line Voltage and Frequency Configurations Available: 100V, 120V, 220-240V, 50/60 Hz.

AC Line Current: 11.75A.

At Idle: Draws no more than 45 watts.

Operating Temperature: 0° C to 40° C at 95% relative humidity (non-condensing).

The DSP section shall have the following specifications:

Input EQ: 6 parametric filters per channel with adjustable Q, ±15 dB boost/cut. Also adjustable high and low shelving filters. This 8-filter EQ section can be bypassed.

Crossover Filters: Highpass and lowpass per channel. Butterworth 6/12/18/24 dB per octave and Linkwitz-Riley 24/48 dB per octave. Also includes ±15 dB bandpass gain and polarity control.

Output EQ: 8 parametric filters per channel with adjustable Q, ±15 dB boost/cut. This 8-filter EQ section can NOT be bypassed. Filters are enabled individually.

Delay: Up to 50 msec total delay per channel.

Output Limiter: Prevents clipping and protects loudspeakers. Choice of -3, -6, or -12 dB threshold per channel.

Presets: 20 presets. 19 are user-definable.

Protection shall include the following:

CDi-Series amplifiers shall be protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature; chain destruction phenomena; excessive output current, and input overload damage. They also protect loudspeakers from input/output DC, large or dangerous DC offsets and turn-on/turn-off transients

The chassis shall be steel. Cooling shall be by a proportional speed fan with front-to-rear airflow.

Dimensions shall be EIA Standard 19-in. rack mount width (EIA RS-310-B), 3.5 in. (8.9 cm) high and 12.25 in. (31.11 cm) deep behind mounting surface.

Net weight shall be 19 lb (8.6 kg). Shipping weight shall be 22 lb (10.0 kg).

The amplifier shall be designated the Crown CDi 4000.



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