

CE 1000**Architectural & Engineering Specifications****CE 1000 (60-Hz models)**

The Crown® CE 1000 power amplifier shall be a solid-state two-channel model.

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

The output impedance of each channel shall be less than 10 milliohms in series with less than 2 microhenries in stereo mode.

The amplifier shall contain controlled slew-rate voltage circuitry to protect it against radio frequency interference burnouts. It shall also be protected from current overload at its output stage. The slew rate of the amplifier shall be greater than 30 volts per microsecond in stereo mode.

The amplifier shall temporarily go into a stand-by mode if its power transformer becomes excessively hot and shall automatically resume normal operation once it has cooled to a safe operating temperature.

Front-panel controls shall include an enable on/off switch, a detented input level control for each channel and a reset switch.

Rear-mounted controls shall include an Input Sensitivity switch for each channel to select between 1.4 V or a fixed voltage gain of 26 dB for full rated output, a Mode switch to select whether the amp is in Bridge Mono mode or Stereo mode, and an RJ-11 Fault output connector.

Front panel indicators shall include a green Power indicator to show the amplifier has power, a red Clip indicator for each channel which shall turn on when distortion of any type becomes audible in the amplifier output, a red Fault indicator for each channel which will blink under 5 conditions: 1) When the amplifier is first turned powered up, until the unit is ready for operation. 2) If the heatsinks reach a temperature above normal working limits. 3) If the transformer thermal protection circuit is activated. 4) If the amplifier wires develop a short circuit, and 5) should the amplifier output stage become non-operational. There is also a green Signal indicator for each channel which shall flash dimly when a low-level signal (> -40 dBm) is present at the input of the amplifier.

The power amplifier shall meet or exceed the following performance criteria. Input sensitivity for rated output: 26 dB voltage gain (unbalanced). Rated FTC output in stereo mode with less than 0.1% THD: 275 watts per channel (1 kHz) into 8 ohms. Hum and noise: at least 105 dB (A weighted) below full rated output power. Frequency response: 20 Hz to 20 kHz, 0.1 dB at 1 watt into 8 ohms per channel in stereo mode. Damping factor: greater than 400 from 10 to 400 Hz into 8 ohms. Phase response: 15 from 20 Hz to 20 kHz at 1 watt.

The amplifier shall be safe when driving any kind of load—even highly reactive ones.

The power requirements shall be 120 VAC at 60 Hz. At idle, the amplifier shall draw 90 watts or less.

The amplifier shall have a rugged steel chassis coated with environmentally friendly powder.

The dimensions of the amplifier shall allow for 19 inch (48.3 cm) EIA standard (RS-310-B) rack mounting. The amplifier shall be 5.25 inches (13.34 cm) tall and 12.25 inches (31.11 cm) deep behind the rack-mounting surface.

The amplifier shall weigh 32.6 pounds (14.79 kg) and shall have a center of gravity approximately 6 inches (15.2 cm) behind the front panel.

The amplifier shall be designated the Crown CE 1000.



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