

## CE - SERIES

# CE 1000



The CE-Series of Crown amplifiers are professional tools designed and built for professional use. Engineered and manufactured by the same teams who built Crown's acclaimed Macro-Tech® and K-Series amps, the CE 1000 has the rugged heart and soul that have characterized Crown's amplifiers for over 30 years.

With many of the same controls and features you've come to expect from Crown, CE-Series amplifiers feature front-panel detented level controls, useful function indicators, proportional fan-assisted cooling, short-circuit protection and more.

For superior flexibility, Crown CE-Series amplifiers can work with a range of Crown SST (System Solution Topologies) modules which provide true professional features like fixed-point crossover and summed bass output.

With a powerful, reliable performance, CE-Series amps easily handle real 2-ohm loads and are capable of chest-thumping lows. Plus, your investment in an CE-Series amplifier is backed by Crown's unequalled Three-Year, No-Fault, Fully Transferable Warranty that covers everything.

For more details about the Crown CE-Series, contact the Crown Technical Support Group at 800-342-6939 or 219-294-8200. Also, visit the Crown Audio website at [www.crownaudio.com](http://www.crownaudio.com).

### Specifications

Note: All measurements relate to 120-volt, 60-Hz units in Stereo mode with 8-ohm loads and an input sensitivity of 26-dB gain at 1-kHz rated power unless otherwise specified. Specifications for units supplied outside the U.S.A. may vary slightly at different AC voltages and frequencies.

#### Power

##### Output Power:

### CE 1000

	*1 kHz Power
2-ohm Stereo (per channel)	<b>560W</b>
4-ohm Stereo (per channel)	<b>450W</b>
8-ohm Stereo (per channel)	<b>275W</b>
4-ohm Bridge-Mono	<b>1,100W</b>
8-ohm Bridge-Mono	<b>900W</b>

\*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.5% THD.

### Features

- **Accurate, uncolored sound with very low distortion for the best in music and voice reproduction.**
- **Bridge-mono/stereo mode switch allows you to set up your amps/speakers in the configuration that best suits your needs.**
- **Advanced protection circuitry guards against: shorted outputs, open circuits, DC, mismatched loads, general overheating, high-frequency overloads and internal faults.**
- **Extremely versatile, handling a wide range of speaker impedances and outputs.**
- **Switchable input sensitivity.**
- **Proportional speed fan optimizes cooling efficiency.**
- **Shallow rack depth. Only 12.25 inches deep!**
- **Choice of Speakon®, binding post, or barrier strip outputs (Speakon® comes standard).**
- **Choice of balanced 1/4-inch (6.35-mm), XLR, or barrier strip inputs.**
- **The best Three-Year, No-Fault, Fully Transferable Warranty in the business! It even covers round-trip ground shipping in the U.S. for all warranty work.**

**Load Impedance:** Safe with all types of loads. Rated for 2, 4 and 8 ohms in Stereo mode, 4 and 8 ohms in Bridge-Mono mode.

**Voltage Gain to 1-kHz, 8-ohm rated output:** 30.5-dB gain at 1.4-volt sensitivity; 26-dB gain at 2.34-volt sensitivity.

**Required AC Mains:** 50/60 Hz (North American units are 60 Hz only); 100-, 120- and 230-/240-VAC ( $\pm 10\%$ ) units are available.

#### AC Line Current,

**100 Volts:** 7.6 A;

**120 Volts:** 6.3 A;

**230-240 Volts:** 3.5 A;

**At Idle:** All amps draw no more than 90 watts.

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

#### Performance

**Frequency Response:**  $\pm 0.2$  dB from 20 Hz to 25 kHz at 1 watt.

**Phase Response:**  $\pm 15$  degrees from 20 Hz to 20 kHz at 1 watt.

#### Signal to Noise Ratio,

##### A-Weighted:

Better than 105 dB below rated 1-kHz power;

##### 20 Hz to 20 kHz:

Better than 100 dB below rated 1-kHz power.

**Total Harmonic Distortion (THD):** 0.5% or less true THD from 20 Hz to 20 kHz.

**Intermodulation Distortion (IMD):** (60 Hz and 7 kHz at 4:1) Less than 0.1% at rated power to 35 dB below rated power at 8 ohms.

**Damping Factor:** Better than 400 from 10 Hz to 400 Hz.

**Crosstalk:** Greater than 55 dB below rated power, 20 Hz to 20 kHz.

**Common Mode Rejection (CMR):** Better than 70 dB from 20 Hz to 1 kHz.

**DC Output Offset (Shorted Input):**  $\pm 10$  mV.

#### Controls and Connectors

**Level:** A detented rotary level control for each channel located on the front panel.

**Power:** An on/off rocker switch located on the front panel.

**Mode:** A two-position switch located on the back panel below the input connectors which, when turned to stereo, operates the amplifier as two independent channels. When "Bridge-Mono" mode is selected, the amplifier bridges the two output channels for twice the output voltage.

**Reset:** A front-panel push button used to reset the circuit breaker that protects the power supply.

**Sensitivity:** A two-position switch located on the back panel next to the Mode switch. Switchable between 1.4 volts for full output into an 8-ohm load (default setting), or a fixed voltage gain of 26 dB. 0.775-volt sensitivity available as a Service Option.

**Fault Jack:** A back-panel RJ-11 jack that may be remotely monitored to signal amplifier Fault condition. An LED or other signalling device (not supplied) may be used.

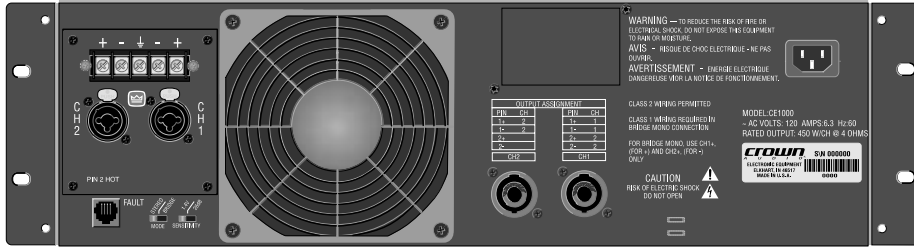
#### Indicators

(all located on front panel)

**Signal:** A green LED for each channel which flashes when a very low-level signal ( $> -40$  dBm) is present at input. May be used for troubleshooting cable runs.

**Clip:** A red LED for each channel which turns on when distortion becomes audible in the amplifier output.

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**Fault:** Normally off, this red indicator will blink under five different conditions:

1. When the amplifier is first 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 amplifier output wires develop a short-circuit.
5. Should the amplifier output stage become non-operational.

This circuit may be monitored remotely by plugging a simple switching circuit using an LED or other signaling device into the back-panel RJ-11 (Fault) jack. Under some conditions, the output of the amplifier will be muted.

**Power:** A green LED that turns on when the amplifier has been turned on and has power.

### Input/Output

**Input Connector (standard module):** One Neutrik® Combo connector for each channel which features a balanced ¼-inch (6.35-mm) phone jack and a 3-pin female XLR connector, in parallel with a barrier strip termination.

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

**Input Impedance:** Nominally 20 k ohms, balanced. Nominally 10 k ohms, unbalanced.

**Input Sensitivity:** 1.4 volts for standard 1-kHz power, or fixed 26-dB gain. 0.775-volt sensitivity available as a Service Option.

**Output Connectors:** Two Neutrik® Speakon® NL4MP (mates with NL4FC) output connectors. Optional 5-way binding post or barrier strip outputs (in parallel with Speakon® connectors) are available.

**DC Output Offset:** ±10 millivolts.

### Output Signal,

**Stereo:** Unbalanced, two-channel;

**Bridge-Mono:** Balanced, single-channel. Channel 1 controls are active; Channel 2 should be turned down.

### Wiring Configuration:

OUTUT PIN ASSIGNMENT			
PIN	CH	PIN	CH
1+	2	1+	1
1-	2	1-	1
2+		2+	2
2-		2-	2

CH-2	CH-1
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### Protection

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

### Options

**Accessories:** CE-HANDLES—handle kit; SST-SBSC—variable Linkwitz-Riley stereo crossover with mono-summed sub-bass output; SST-MX—100-Hz Linkwitz-Riley crossover with stereo sub-bass outputs; SST-SX—80-/120-Hz switchable Linkwitz-Riley crossover with mono summed sub-bass output; CE-AS1—barrier block alternate output connectors;\* CEAS2—5-way binding post alternate output connectors.\* SST-4622, SST-3632, SST-4632—custom two-channel crossover networks with equalization and delay purposely engineered for use with JBL model 4622, 3632 and 4632 cinema speakers. SST-SBSC 3632T, SST-SBSC 4632T—custom three-channel crossover networks with CD-horn equalization and mono-summed low-frequency outputs similarly designed for use with JBL model 3632T and 4632T cinema speakers.

### Construction

Rugged steel chassis is formed into a durable package any stagehand could love. Coated with environmentally friendly powder for long life and ease of maintenance.

**Cooling:** Proportional speed fan.

**Dimensions:** EIA Standard 19-inch rack mount width (EIA RS-310-B), 5.25-inch (13.34-cm) height and 12.25-inch (31.11-cm) depth behind front mounting surface.

**Weight:** The CE 1000 weighs 32.6 pounds (14.79 kg). For shipping weight, add 6 pounds (2.7 kg).

\*Compatible with CE versions CE 1000A and CE 2000A amplifiers (current release).

### Crown's Three-Year, No-Fault, Fully Transferable Warranty

Crown offers a Three-Year, No-Fault, Fully Transferable Warranty for every new Crown amplifier—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your amplifier fails, or does not perform to original specifications, it will be repaired or replaced at our expense. About the only things not covered by this warranty are those losses normally covered by insurance and those caused by intentional abuse. And the coverage is transferable, should you sell your amplifier.

See your authorized Crown dealer for full warranty disclosure and details. For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 219-294-8200.



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