

# **CE 4000**

ngineered from the bottom up for topnotch performance and unmatched reliability, Crown's CE 4000 amplifier represents the wave of the future for power amplifiers. Designed using Crown's patented, awardwinning BCA® (Balanced Current Amplifier) engineering, the CE 4000 provides superior power output, increased efficiency, legendary Crown sound and extraordinary reliability.

With typical output power at 1,200 watts per channel, and Burst Power up to 1,800 watts per channel, the CE 4000 not only handles but excels at handling 2-ohm loads. In repeated stress tests, the CE 4000 continued to perform at levels 12 dB into clip, long after the competition had shut down.

Designed for the utmost in flexibility, the CE 4000 features selectable on-board high-and low-pass filter sets, so you can easily add a sub-bass system. Additional signal control is available via Crown's optional SST (System Solution Topologies) modules, which offer a wide variety of active crossover configurations. Your choice of dual output connectors is also available: Neutrik® Speakon® plus 5-way barrier block, 5-way barrier block, 5-way barrier block plus binding strip, or dual Neutrik Speakon.

Weighing in at a mere 34 pounds, the CE 4000 is easy to transport and set up. What's more, Crown's enhanced, switch-mode power supply (featuring power factor correction) results in a universal power supply, so you can plug it in anywhere. And with the lowest cost per watt of any amp in its class, the CE 4000 is the obvious choice for serious musicians everywhere.

For more details about the Crown CE 4000 amplifier, contact the Crown Technical Support Group at 800-342-6939 or 219-294-8200. Also, visit the Crown Audio website at www.crownaudio.com.

#### **Specifications**

Note: All measurements are in Stereo mode with 8-ohm loads and an input sensitivity of 26-dB gain at 1-kHz rated power unless otherwise specified.

#### Powe

**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:

39.0-dB gain at 0.775-volt sensitivity;

33.8-dB gain at 1.4-volt sensitivity;

26-dB gain at 3.46-volt sensitivity.

**Required AC Mains:** 50/60 Hz , 100-240VAC (±10%).

# CE-SERIES



#### **Features**

- 1,200 watts per channel at 2 ohms, Burst Power up to 1,800 watts per channel.
- Patented, award-winning BCA technology delivers high efficiency and superb sound.
- Extremely reliable; keeps running under the harshest of conditions.
- Switch-mode power supply with PFC (powerfactor correction) allows universal use.
- Sub-bass output via integral 4-position highpass and 3-position low-pass filter sets for each channel.

Compatible with Crown SST (system solution topologies) input modules.

≅)*CFOWN*°

- Choice of dual output connectors: 5-way binding post plus Neutrik® Speakon®, 5-way binding post plus barrier strip, or dual Neutrik Speakon.
- 3-speed Fan On Demand.
- · Weighs just 34 pounds.
- The best three-year "No-Fault" full warranty in the business! It even covers round-trip ground shipping in the U.S. for all warranty work.

AC Line Current,

**100 Volts**: 8.5 A; **120 Volts**: 7.1 A; **230-240 Volts**: 3.7 A;

At Idle: Amp draws no more than 140

*n*atts

**AC Line Connector:** 15A IEC Connector with Country-Specific Cord and Plug.

Inrush Current\*: 50.86 A.

\*Per EN 55103-1: 1996 Annex B and Annex F. Highest reading from a sample of 10 random readings.

**Output Power:** 

# **CE 4000 Power Chart**

Maximum power @ 1 kHz with 0.5% THD

2 ohm Dual	1800W
4 ohm Dual	1200W
8 ohm Dual	600W
4 ohm Bridge-Mono	3600W
8 ohm Bridge-Mono	2400W
·	

1. ≥ 200-V line voltage.

#### Performance

**Frequency Response:** ±0.25 dB from 20 Hz to 20 kHz at 1 watt.

**Phase Response:** ±15 degrees deviation from linear phase from 20 Hz to 20 kHz at 1 watt.

**Signal to Noise Ratio, A-Weighted, 20 Hz to 20 kHz:** Better than 102 dB below rated 1-kHz power.

**Total Harmonic Distortion (THD):** 1-kHz rated power, 0.5% or less THD from 20 Hz to 20 kHz.

Intermodulation Distortion (IMD): (60 Hz and 7 kHz at 4:1) Less than 0.5% at rated power to 30 dB below rated power at 8 ohms.

**Damping Factor\*:** Greater than 700 from 10 Hz to 400 Hz.

\*Measured using binding-post output connectors.

**Crosstalk:** Better than 50 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): ±10 mV.

## Controls & Connectors

**Level:** A 31-step detented rotary level control for each channel located on the front panel.

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

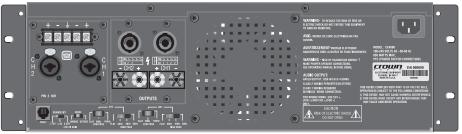
**Mode:** Turn power off before switching. A two-position switch located on the back panel below the input connectors which, when turned to stereo, operates the amplifier as two independent channels. When "Bridge-Mono" mode is selected, the amplifier bridges the two output channels for twice the output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

**Sensitivity:** A three-position switch located on the back panel next to the Mode switch. Switchable among 0.775 volts or 1.4 volts for full output into an 8-ohm load (default setting), or 3.46 volts for a fixed voltage gain of 26 dB.

**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.

#### Filter Switches:

**Low Pass:** A three-position switch for each channel located on the back panel below the input and output modules. Switchable among settings for Flat, 80 Hz and 100 Hz. Filter rolloff is 24-dB per octave.



**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:** 0.775 volts or 1.4 volts for standard 1-kHz power, or fixed 26-dB gain.

**Output Connectors:** Three options available: Four (4) Neutrik Speakon NL4MP (mates with NL4FC) output connectors; (2) 5-way binding posts in parallel with two (2) Speakon connectors; or barrier strip outputs in parallel with two (2) 5-way binding posts.

#### Wiring Configuration:

OUT	OUTUT PIN ASSIGNMENT				
PIN	СН		PIN	СН	
1+	2		1+	1	
1-	2		1-	1	
2+			2+	2	
2-			2-	2	
СН	l-2		CH-1		

### Output Signal,

Stereo: Unbalanced, two-channel;

**CE 4000** 

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

#### **Protection**

CE 4000 amplifiers are protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature, chain destruction phenomena, input overload damage and high-frequency blowups. They also protect loudspeakers from input/output DC, large or dangerous DC offsets and turn-on/turn-off transients.

#### 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:** Three-speed proportional speed fan.

**Dimensions:** EIA Standard 19-inch rack mount width (EIA RS-310-B), 5.25-inch (13.34-cm) height and 16.25-inch (36.56-cm) depth with additional 1-inch rear rack ears.

**Weight:** The CE 4000 net weight is 33.3 pounds (15.1 kg). Shipping weight is 39.3 pounds.

# Indicators

**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.

**High Pass:** A four-position switch for each channel located on the back panel below

the input and output modules. Switchable

Hz. Filter rolloff is 18-dB per octave.

among settings for Flat, 30 Hz, 40 Hz and 50

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

**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 backpanel RJ-11 (Fault) jack. Under some conditions, the output of the amplifier will be muted.

## Crown's Three-Year, No-Fault, Full Warranty

Crown offers a Three-Year, No-Fault, Full 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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