

# SIX CHANNEL AMPLIFIER

# CP660



The Crown® CP660 six-channel power amplifier is designed for a wide range of demanding applications, including multi-channel, distributed sound, surround and stereo systems. Perfect for applications with multi-zone needs, such as cafeterias, restaurants, schools and theaters, the CP660's efficient design allows convenient, cost-effective, reliable operation in a compact, two-rack-space format.

This highly efficient amplifier includes a power-sharing design that provides extra power to channels where it's needed most. A discrete-component power design employs rugged, high-current metal output transistors for maximum reliability. The super-quiet, variable-speed fan operates according to thermal demand, while the front-panel air intakes provide the most efficient cooling in any rack.

The CP660 brings you maximum flexibility for configuration, with six independent amplifier channels. Each pair of output channels can be bridged, using convenient switches on the back panel, to provide three, four or five channels with higher output power. In addition, each channel includes its own back-panel gain control for convenient system balancing. Barrier strip connectors are provided for the inputs, and heavy-duty 5-way binding posts allow secure output connections. Plus, your investment in a CP660 is backed by Crown's unequalled Three-Year, No-Fault, Full Warranty that covers everything.

For more details about the Crown CP660, contact the Crown Technical Support Group at 800-342-6939 or 574-294-8200. Also, visit the Crown Audio website at [www.crownaudio.com](http://www.crownaudio.com).

## Features

- Built for maximum flexibility, with the best watts-to-dollars ratio around
- Six independent amplifier channels to suit a wide range of applications
- Six independent level controls on the back panel allow convenient level balancing of all channels
- Three Dual/Mono switches on the back panel give a broad range of flexibility in configuring your system
- Compact design is rack-mountable in two rack spaces (3½ inches/89 mm)
- Super-quiet, variable-speed fan with auto trigger for silent, effective cooling
- High-quality, standard-spaced double banana-jack/binding-post output connections facilitate any type of speaker connection, including heavy-gauge wire
- Three Year, No-Fault, Fully Transferable warranty completely protects your investment and guarantees its specifications

## Specifications

Note: All measurements are related to 120-VAC units 60Hz in Stereo mode with 8-ohm loads 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:

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

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

#### AC Line Current,

100 Volts: 7.8 A;  
120 Volts: 6.5 A;  
240 Volts: 3.3 A.

**AC Line Connector:** NEMA 5-15P (15 A) on North American units.

## Performance

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

**Phase Response:** ±15 degrees from 20 Hz to 10 kHz at 1 watt.

**Signal to Noise Ratio, A-Weighted:** Better than 105 dB below rated 1 kHz power at 8 ohms.

**Total Harmonic Distortion (THD):** rated power, 0.3% or less true THD.

**Intermodulation Distortion (IMD):** (60 Hz and 7 kHz at 4:1) Less than 0.25% at rated power to -35 dB below rated power at 8 ohms.

**Damping Factor:** Greater than 250 from 20 Hz to 400 Hz.

**Controls** (All located on front panel)

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

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

**Mode:** A two-position switch for each pair of channels (three total) located on the back panel used to select Dual or Mono operation.

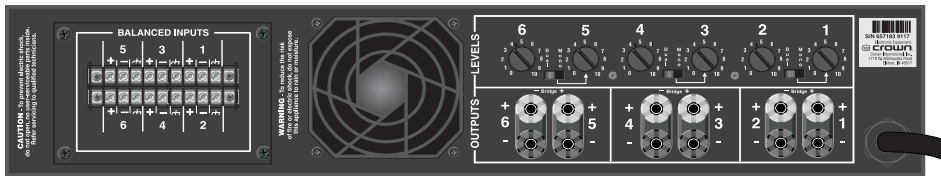
CP660	*1 kHz Power	
	4-Ohm	8-Ohm
<b>Six-Channel Mode</b>		
1 Channel / 1 Load	<b>130W</b>	<b>90W</b>
4 Channels / 4 Loads	<b>100W</b>	<b>70W</b>
6 Channels / 6 Loads	<b>75W</b>	<b>60W</b>
<b>Bridge Mode</b>		
2 Channels / 1 Load		<b>250W</b>
4 Channels / 2 Loads		<b>200W</b>
6 Channels / 3 Loads		<b>150W</b>

\*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.3% THD.



INSTALLED

# CP660



## Indicators

**Signal:** A green LED for each channel which flashes to show audio output.

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

**Temp:** A red LED which turns on when the temperature of the amplifier gets too high and the fan is in full-speed operation mode. If the maximum operating temperature is exceeded, this LED remains on while the amplifier cools down.

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

## Input/Output

**Input Connector:** Three-terminal barrier block balanced connectors.

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

**Input Sensitivity:** 0.7 volts for standard 1-kHz power at 8 ohms.

**Output Connectors:** One set of 5-way color-coded binding posts for each channel. The output connections can accommodate banana plugs, double banana plugs, or wire as large as 10 gauge.

**Output Impedance:** Less than 32 milliohms.

**DC Output Offset:**  $< \pm 50$  millivolts.

## Output Signal,

Dual: Unbalanced; two separate channels per pair.

Bridge-Mono: Balanced; single-channel per pair. Odd-numbered controls are active; Even-numbered controls should be turned down.

## Protection

The CP660 amplifier is protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature; chain destruction phenomena; input overload damage; and high-frequency blowups. It also protects loudspeakers from input/output DC, large or dangerous DC offsets and turn-on/turn-off transients.

## Mechanical

**Cooling:** Internal heat exchangers with on-demand forced air cooling.

**Dimensions:** EIA Standard 19-inch rack mount width (EIA RS-310-B), 3.5-inch (8.9-cm) height and 12.75-inch (32.3-cm) depth behind front mounting surface.

**Weight:** Center of gravity is 6 inches (15.2 cm) behind the front mounting surface, and 7 inches (17.8 cm) in from the outer edge of the left rack ear. 25 lbs. (11.4 kg) shipping weight.

## 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 574-294-8200.



A Harman International Company

Crown International, Inc.  
1718 W. Mishawaka Rd.  
Elkhart, IN 46517-9439  
TEL: 574-294-8200  
FAX: 574-294-8FAX  
www.crownaudio.com

Specifications subject to change without prior notice. Latest information available at [www.crownaudio.com](http://www.crownaudio.com).

Crown and Crown Audio are registered trademarks of Crown International, Inc. Printed in U.S.A.

© 2005 Crown Audio®, Inc.