

## SIX CHANNEL AMPLIFIER

# CP660

## Architectural & Engineering Specifications

### CP660 (120 V, 60 Hz models)

The amplifier shall be a solid-state six-channel model employing a discrete-component power design with high-current metal output transistors.

Each amplifier channel shall have the ability to operate individually, or paired with another channel in a bridged configuration to provide increased output voltage over that of an individual channel output.

Front panel controls shall include a rocker switch for selecting power on and off. Rear panel controls shall include a rotary control for each channel to adjust input level, and a switch for each pair of channels to select Dual or Bridge modes of operation.

Front panel indicators shall include a green LED for each channel to signal audio output; a yellow LED for each channel to signal audible distortion in the output; a green LED to signal that the amplifier is turned on and power is applied; a red LED to signal when the maximum operating temperature of the amplifier is exceeded. This LED shall remain illuminated until the amplifier has returned to a safe operating temperature.

Rear-panel connectors shall include a three-terminal barrier block for each channel for balanced input connection, and a pair of color-coded 5-way binding posts for each channel for output connection.

The amplifier power requirements shall be 120 VAC at 60 Hz. A NEMA 5-15P type AC line connector shall be provided on the attached AC power cord.

The amplifier chassis shall be constructed of steel with a durable black finish. The amplifier front panel shall include a Lexan® overlay and air filter media behind a detachable grille. The amplifier shall employ a cooling system consisting of internal heat exchangers, along with a variable-speed cooling fan which shall operate according to internal thermal demand. Airflow through the chassis shall be from front to rear.

The dimensions of the amplifier shall allow for 19 inch (48.3 cm) EIA Standard (RS-310-B) rack mounting. The amplifier shall be 3.5-inches

(8.9-cm) tall, and 12.75-inches (32.3-cm) deep behind the front rack-mounting surface.

Center of gravity of the amplifier shall be 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. Shipping weight of the amplifier shall be 25 lbs. (11.4 kg).

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

Input Impedance of the amplifier shall be nominally 20 k ohms, balanced; nominally 10 k ohms, unbalanced. Input Sensitivity shall be 0.7 volts for standard 1-kHz power at 8 ohms. Output Impedance of the amplifier shall be less than 32 milliohms. DC Output Offset shall be less than  $\pm 50$  millivolts.

The power amplifier shall meet or exceed the following performance criteria. Output Power in Dual mode: 130 watts, one channel/one load at 4 ohms; 90 watts, one channel/one load at 8 ohms; 100 watts, 4 channels/4 loads at 4 ohms; 70 watts, 4 channels/4 loads at 8 ohms; 75 watts, 6 channels/6 loads at 4 ohms; 60 watts, 6 channels/6 loads at 8 ohms in Dual mode. Output Power in Bridge mode: 250 watts, 2 channels/one load at 8 ohms; 200 watts, 4 channels/two loads at 8 ohms; 150 watts, 6 channels/three loads at 8 ohms. Frequency Response:  $+0/-1$  dB from 20 Hz to 20 kHz at 1 watt. Phase Response:  $\pm 15$  degrees from 20 Hz to 10 kHz at 1 watt. Signal to Noise Ratio, A-Weighted: Better than 100 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.

The amplifier shall be designated the Crown CP660.



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