

Xs500**Architectural & Engineering Specifications****Xs500 (120 V, 60 Hz model)**

The Crown® Xs500 power amplifier shall be a solid-state two-channel model employing Class B output circuitry.

The amplifier shall include protection from shorted, open and mismatched loads, general overheating, DC, high-frequency overloads, under/over voltage, and internal faults.

The front-panel controls shall be a power switch and a gray rotary level control (one per channel).

The recommended load impedance shall be 2 to 8 ohms.

Rear-mounted input connectors shall be a 3-pin Phoenix-style connector (one per channel) and an XLR-1/4" combo connector (one per channel) including a 3-pin female XLR connector and TRS 1/4" phone jack. Rear-mounted output connectors shall be binding posts (one pair per channel), a 4-pole Speakon connector (one per channel), and a 3-pin male XLR connector (one per channel) in parallel with the XLR-1/4" combo and Phoenix-style input connectors for daisy-chain connections.

Front panel indicators shall include a yellow Bridge-Mode Indicator that illuminates when the Mode Switch is set to the "Bridge" position, a green Signal Indicator (one per channel) that illuminates when the channel's input signal level is above -40 dBu, a red Clip Indicator (one per channel) that illuminates when the channel's output signal is being overdriven, a red Temp Indicator (one per channel) that illuminates when channel(s) are in thermal protect mode, a red Fault Indicator that illuminates when the amplifier is in protect mode and also briefly during normal power-up when amplifier is first switched on, a yellow Power Indicator that indicates amplifier has been turned on, and a red AC Mains Indicator that illuminates when AC power is present at the power cord.

The power amplifier shall meet or exceed the following performance criteria. Input sensitivity for rated output: 1.4V. Rated output with both channels driven in Dual mode into 8 ohms (1 kHz): 400 watts per channel at 0.15% THD. Rated output with both channels driven in Dual mode into 4 ohms: 500 watts per channel at 0.15% THD. Rated output with both channels driven in Dual mode into 2 ohms (1 kHz): 750 watts per channel at 0.5% THD. Bridge-mono output power into 8 ohms (1 kHz): 1,450 watts at 0.15% THD. Bridge-mono output power into 4 ohms (1 kHz): 1,600 watts at 0.5% THD. Frequency Response at 1 watt, 22 Hz to 22 kHz: ± 1 dB. Signal to Noise Ratio below rated power: > 102 dB A-weighted. Total Harmonic Distortion at full rated power from 20 Hz to 20 kHz: < 0.5%. Damping Factor: > 200 from 10 to 400 Hz. Crosstalk (below rated power): > 55 dB at 1 kHz and 20 kHz. DC Output Offset (shorted input): < ± 75 mV. Input Impedance (nominal): 20 kilohms balanced, 10 kilohms unbalanced.

The amplifier chassis shall be constructed of steel with a durable black finish and shall be designed for forced-air ventilation from the front panel to the back panel.

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 17.14 inches (43.5 cm) deep behind the rack-mounting surface.

The amplifier shall weigh 28 lb 14 oz (13.1 kg).

The amplifier shall be designated the Crown Xs500.



H A Harman International Company

Crown International
P.O. Box 1000
Elkhart, IN 46515-1000
TEL: 574-294-8200
FAX: 574-294-8FAX
www.crownaudio.com

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