

**X L S   S E R I E S****XLS 402****Architectural & Engineering Specifications****Crown® XLS 402**

The power amplifier shall be a solid-state two-channel model.

The amplifier shall provide extensive protection and diagnostic capabilities, including output current limiting, DC protection, circuit breaker, and thermal protection.

The front-panel controls shall be two black detented level controls (one for each channel) and a power switch. The rear-panel controls shall be a circuit breaker reset switch and a Dual/Bridge-Mono mode switch.

Front-mounted indicators shall be the following: Signal Presence Indicators: Two green LEDs, one for each channel, illuminate when the channel's input signal exceeds -40 dBu. Clip Indicators: Two red LEDs, one for each channel, illuminate when the channel's output is being overdriven. Power Indicator: Blue LED indicates amplifier has been turned on and AC power is available. Fault Indicator: Two red LEDs illuminate when amplifier is in protect mode. Also illuminates briefly during normal power-up when amplifier is first switched on.

The recommended load impedance shall be 4 to 8 ohms per channel in Stereo, and 8 ohms in Bridge Mono.

The rear-mounted output connectors shall be two 4-pole Speakon® connectors (one per channel) and a pair of binding posts per channel. Rear-mounted input connectors shall be 3-pin balanced XLR connectors.

The power amplifier shall meet or exceed the following performance criteria: Sensitivity for full rated power at 4 ohms: 1.25 V. Rated output with both channels driven with 0.5% THD (at 1 kHz) in Dual mode: 450 watts per channel into 4 ohms and 300 watts per channel into 8 ohms. Rated output with 0.5% THD (at 1 kHz) in Bridge-Mono mode: 900 watts into 8 ohms. Frequency Response at 1 watt, 22 Hz to 20 kHz: +0 dB, -1 dB. Signal to Noise Ratio below rated power (20 Hz to 20 kHz, inputs terminated): greater than 100 dB A-weighted. Total Harmonic Distortion at full rated power, 1 kHz: less than 0.5%. Intermodulation Distortion (60 Hz and 7 kHz at 4:1, from full rated output to -40 dB: less than 0.3%. Damping Factor (8 ohms): greater than 200 from 10 to 400 Hz. Crosstalk (below rated power, -75 dB at 1 kHz, -50 dB at 20 kHz. Input Impedance (nominal): 20 kilohms balanced, 10 kilohms unbalanced. AC Line Voltages and Frequencies Available ( $\pm 10\%$ ): 120 VAC 60Hz, 100 VAC 50/60 Hz, 220 VAC 50 Hz, 230-240 VAC 50 Hz.

The amplifier chassis shall be constructed of steel with a durable black finish and shall be designed for flow-through ventilation from the front panel to the back panel. Internal heat sinks with forced-air cooling shall provide rapid, uniform heat dissipation.

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 15.2 inches (38.6 cm) deep.

The amplifier shall weigh 25.7 pounds (11.7 kg).

The amplifier shall be designated the Crown XLS 402.



**H** A Harman International Company

Crown International  
1718 W. Mishawaka Rd.  
Elkhart, IN 46517-9439  
TEL: 574-294-8200  
FAX: 574-294-8FAX  
[www.crownaudio.com](http://www.crownaudio.com)

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