



XLS 402

XLS SERIES

Architectural & Engineering Specifications

XLS 402 (120 V, 60 Hz models)

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 special thermal protection for the unit's transformers.

The front-panel controls shall be two black detented level controls (one for each channel), a power switch, and a circuit breaker for overload protection.

Front-mounted indicators shall be Clip: one red LED per channel which illuminates when the channel's output signal is being overdriven, Power: one green LED which indicates that the amplifier has been turned on and AC power is available, and Fault: one yellow LED which illuminates when amplifier is in protect mode and briefly during normal power-up when amplifier is first switched on.

The recommended load impedance shall be 2 to 8 ohms per channel in Stereo, and 8 ohms in Bridge Mono. The amplifier shall be safe when driving any kind of load, including highly reactive ones.

The rear-mounted output connectors shall be one four-pole Speakon® connector and a pair of 5-way 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: Input sensitivity for rated output at 4 ohms: 1.025 V. Rated output with both channels driven with 0.5% THD (at 1 kHz) in Dual mode: 570 watts per channel into 2 ohms, 400 watts per channel into 4 ohms, and 260 watts per channel into 8 ohms. Rated output with 0.5% THD (at 1 kHz) in Bridge-Mono mode: 800 watts into 8 ohms and 1,140 watts into 4 ohms. Frequency Response at 1 watt, 20 Hz to 20 kHz: ± 0.75 dB. Phase Response at 1 watt: -10 degrees at 10 Hz, $+19$ degrees at 20 kHz. Signal to Noise Ratio below rated power (20 Hz to 20 kHz): greater than 100 dB A-weighted. Total Harmonic Distortion at full rated power from 20 Hz to 1 kHz: less than 0.15%. 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, -82 dB at 1 kHz, -58 dB at 20 kHz. Voltage Gain at maximum output: 31 dB. Input Impedance (nominal): 20 kilohms balanced, 10 kilohms unbalanced. AC Line Voltages and Frequencies Available ($\pm 10\%$): 120 VAC/60Hz and 230 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 14 inches (35.6 cm) deep behind the rack-mounting surface.

The amplifier shall weigh 25.3 pounds (11.5 kg).

The amplifier shall be designated the Crown XLS 402.



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