

XLS SERIES

XLS 402



The XLS Series of power amplifiers from Crown represents a new era in affordable, quality power amplification. The line consists of three models in a uniform, rugged chassis, incorporating the best of tried-and-true design principles and innovative features. XLS Series amplifiers are professional stereo power amplifiers engineered to meet demanding audio requirements—reliably and within budget. Plus, every XLS Series amplifier is backed by Crown's unequalled Three-Year, No-Fault, Fully-Transferrable Warranty that covers everything.

With over five decades of experience designing and building rock-solid products, Crown is the standard in amp technology. So check out the affordable, Crown XLS Series. They are a powerful argument for quality and value!

For more details about the XLS Series, contact the Crown Technical Support Group at 800-342-6939 or 219-294-8200. Also, visit the Crown Audio website at www.crownaudio.com.

Specifications

The following applies to units in Stereo mode with 8-ohm loads and rated input sensitivity unless otherwise specified.

Performance

Sensitivity (volts RMS) for full rated power at 4 ohms: 1.025.

Frequency Response (at 1 watt) 20 Hz to 20 kHz: ± 0.75 dB.

Phase Response (degrees at 1 watt)

at 10 Hz: -10 .

at 20 kHz: $+19$.

Signal-to-Noise Ratio (20 Hz to 20 kHz)

A-weighted, below rated power: > 100 dB.

No weighting, below rated power: > 97 dB.

Total Harmonic Distortion (THD) at full bandwidth power, from 20 Hz to 1 kHz: $< 0.15\%$.

Intermodulation Distortion (IMD): (60 Hz and 7 kHz at 4:1) from full rated output to -40 dB: $< 0.3\%$.

Features

- Simple, reliable design incorporates many popular features.
- Selectable high-pass filter on each channel enables amplifier to work more efficiently when full band-width is not required.
- Pair of linear optocoupler clip limiters protects loudspeakers from being overdriven.
- Housed in a rugged, all-steel 3U chassis.
- Efficient forced-air fan prevents excessive thermal buildup.
- Electronically balanced XLR inputs and touch-proof binding post outputs.
- Features precision detented level controls, power switch, and four LEDs, which indicate clip for each channel, power and fault conditions.
- Three-Year, No-Fault, Fully-Transferrable Warranty completely protects your investment and guarantees its specifications.

Damping Factor (8 ohm) 10 Hz to 400 Hz: >200 .

Crosstalk (below rated power)

at 1 kHz: -82 dB.

at 20 kHz: -58 dB.

Voltage Gain (at maximum output): 31 dB.

Power

Output Power:

| XLS 402 | *1 kHz Power |
|----------------------------|--------------|
| 2-ohm Stereo (per channel) | 570W |
| 4-ohm Stereo (per channel) | 400W |
| 8-ohm Stereo (per channel) | 260W |

*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.1% THD.

Load Impedance: Safe with all types of loads. Rated for 2 to 8 ohms in Stereo, 8 ohms in Bridge-Mono.

AC Line Voltages Available ($\pm 10\%$): 120 and 230 VAC.

Line Frequency: 50/60 Hz.

Controls

Level: Two front-panel, black rotary level controls, one for each channel.

Power: Front-panel switch; on when in the UP position.

Filter Switches: One per channel; three-position back-panel switches set the frequency for internal high-pass filters. Frequency setting is 30 Hz when switch is in left position; 15 Hz when switch is centered; and bypassed when switch is in right position.

Limiter Switch: Back-panel switch offers loudspeaker protection against moderate amplifier clip when set to the "IN" position.

Fuse: Provides overload protection.

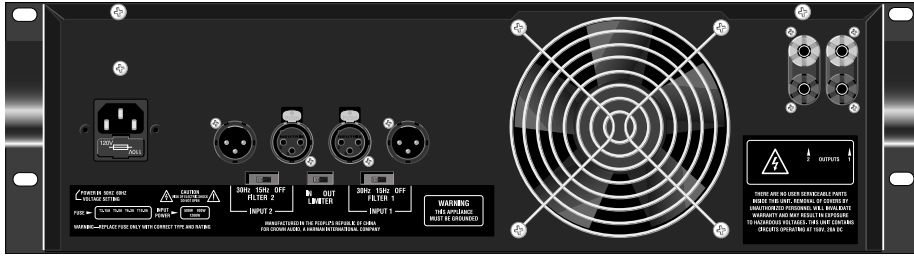
Indicators

Clip: Two front-panel red LEDs, one for each channel, illuminate when the channel's output signal is being overdriven.

Power: Green front-panel LED indicates amplifier has been turned on and AC power is available.

Fault: Yellow front-panel LED illuminates when amplifier is in protect mode. Also illuminates briefly during normal power-up when amplifier is first switched on.

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Input/Output

Input Connectors: One per channel; back-panel three-pin female XLR input connectors are provided.

Input Impedance (nominally balanced, nominally unbalanced): 20 k ohms, 10 k ohms.

Output Connectors: One pair of back-panel, 5-way binding posts per channel; accepts banana plugs, spade lugs or bare wire. (European models do not accept banana plugs.)

DC Output Offset (shorted input): ± 10 millivolts.

Output Signal: Stereo, unbalanced, two-channel.

Protection

XLS Series amplifiers provide extensive protection and diagnostic capabilities, including built-in anti-clip limiters, switchable high-pass filters, output current limiting, DC protection, fuses, and special thermal protection for the unit's transformers.

Construction

Ventilation: Flow-through ventilation from front to back.

Cooling: Internal heat sinks with forced-air cooling for rapid, uniform heat dissipation.

Air Volume Requirements (per minute per unit): 80.15 ft³ (2.27 m³).

Dimensions: EIA Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B), 5.25-inch (13.3-cm) height and 12.6-inch (32.0-cm) depth behind the mounting surface.

Weight

Net Weight: 31 lbs. (14.0 kg).

Shipping Weight: 38 lbs. (18 kg).

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 219-294-8200.



H A Harman International Company

Crown International
P.O. Box 1000
Elkhart, IN 46515-1000
TEL: 219-294-8200
FAX: 219-294-8FAX
www.crownaudio.com

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