

# RUN THE SHOW

**THE XLS** Series of power amplifiers from Crown define the standard for live sound systems with unmatched performance, technology, and affordability.

This high-performance line consists of four models, each providing enormous power and flexibility thanks to the integrated PureBand™ Crossover System and Peak,™ Limiters. And weighing in at only 11 lbs or less, they provide the ultimate in lightweight portability.

Generating chest-thumping lows and crystal clear highs, the four models in the series – the XLS 1000, XLS 1500, XLS 2000, and XLS 2500 – are engineered to meet any demanding audio requirements – reliably and within budget.

Every XLS Series amplifier is backed by Crown's unequaled Three-Year, No-Fault, Fully Transferable Warranty that covers everything.

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

For more details about the XLS Series, contact the Crown Technical Support Group at 800-342-6939 or 574-294-8200. Also, visit the Crown Audio website at [www.crownaudio.com](http://www.crownaudio.com).

## FEATURES

- High performance, lightweight Class-D amplifier – weighs less than 11 lbs.
- Integrated PureBand™ Crossover System ensures seamless transitions from low- to high-frequency drivers
- Integrated Peak,™ Limiters provide maximum output while protecting your speakers
- XLR, 1/4", RCA Inputs ensure compatibility with any source
- 1/4" Inputs can be used as loop-thrus to distribute signal to additional amplifiers

### XLS 1000

\*1 kHz Power

2Ω Dual (per channel)	<b>550W</b>
4Ω Dual (per channel)	<b>350W</b>
8Ω Dual (per channel)	<b>215W</b>
8Ω Bridge	<b>700W</b>
4Ω Bridge-Mono	<b>1,100W</b>

\*Maximum average power in watts at 0.5% THD, 1 kHz.

### XLS 1500

\*1 kHz Power

2Ω Dual (per channel)	<b>775W</b>
4Ω Dual (per channel)	<b>525W</b>
8Ω Dual (per channel)	<b>300W</b>
8Ω Bridge	<b>1,050W</b>
4Ω Bridge	<b>1,550W</b>

\*Maximum average power in watts at 0.5% THD, 1 kHz.

### XLS 2000

\*1 kHz Power

2Ω Dual (per channel)	<b>1,050W</b>
4Ω Dual (per channel)	<b>650W</b>
8Ω Dual (per channel)	<b>375W</b>
8Ω Bridge	<b>1,300W</b>
4Ω Bridge	<b>2,100W</b>

\*Maximum average power in watts at 0.5% THD, 1 kHz.

### XLS 2500

\*1 kHz Power

2Ω Dual (per channel)	<b>1,200W</b>
4Ω Dual (per channel)	<b>775W</b>
8Ω Dual (per channel)	<b>440W</b>
8Ω Bridge	<b>1,550W</b>
4Ω Bridge	<b>2,400W</b>

\*Maximum average power in watts at 0.5% THD, 1 kHz.



## PERFORMANCE

Sensitivity (for full rated power at 4 ohms): 1.4 Vrms.

### Frequency Response

(at 1 watt, 20 Hz to 20 kHz): +0 dB, -1 dB.

### Signal-to-Noise Ratio

Rated as dB to full rated 8 ohm power output (A-Weighted):

XLS 1000 > 97 dB

XLS 1500, XLS 2000, XLS 2500 > 103 dB

Total Harmonic Distortion (THD): < 0.5%.

### Intermodulation Distortion (IMD):

(60 Hz and 7 kHz at 4:1)

from full rated output to -30 dB: < 0.3%.

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

### Crosstalk (below rated 8 ohm power):

At 1kHz: > 85dB

At 20kHz: >55dB

### Input Impedance (nominal):

20 kilohms balanced, 10 kilohms unbalanced.

### Load Impedance:

2 to 8 ohms per channel in Stereo, 4 to 8 ohms in Bridge Mono.

### AC Line Voltage and Frequency

### Configurations Available ( $\pm 10\%$ ):

120 VAC 60 Hz, 100 VAC 50/60 Hz, 220 and 240 VAC 50 Hz.

## CONTROLS

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

**LCD Screen:** Back-lit LCD allows for crossover configuration, amp mode configuration and clip compressor configuration.

**Menu/Prev/Next:** Three buttons located near the LCD screen that are used to configure and access the integrated processing.

**Power:** Front-panel switch; on when in the IN position. Blue LED will illuminate when on.

**Circuit Breaker:** Back-panel breaker provides overload protection.

## INTEGRATED PROCESSING

### PureBand™ Crossover System

**Crossover Filter:** Linkwitz-Riley 24dB per octave

**Crossover Frequency Range:** 50 Hz - 3 kHz

**Crossover Mode:** Crossover (CH1=LPF, CH2=HPF), Low Pass (both channels LPF), High Pass (both channels HPF), Bridge (LPF or HPF)

**Peak,™ Limiters:** Channel independent clip limiter designed to provide maximum output while protecting your loudspeakers

## INDICATORS

**Signal Presence Indicators:** Two green LEDs, one for each channel, illuminate when the channel's input signal exceeds -40 dBu.

**-10 Indicator:** Green LED flashes when output signal exceeds -10 dB below clip.

**-20 Indicator:** Green LED flashes when output signal level exceeds -20 dB below clip.

**Clip Indicators:** Two red LEDs, one for each channel, illuminate when the channel's output is being overdriven.

**Thermal Indicator:** Two red LEDs, one for each channel, illuminate when thermal compression begins.

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\*Preliminary specs are subject to change.

## INPUT/OUTPUT

**Input Connectors:** XLR (one per channel), 1/4 inch (one per channel), and RCA (one per channel). 1/4-Inch connectors can be used as loop-thrus to distribute signal to additional amplifiers.

**Output Connectors:** Two 4-Pole Speakon® Output Connectors accept 2-pole or 4-pole Speakon® connectors. The top Speakon connector is wired for both channels so it can be used for bridge-mono wiring or for stereo wiring of two speakers to a single Speakon connector.

One pair of back-panel binding posts per channel; accepts banana plugs or bare wire. (European models do not accept banana plugs.)

## PROTECTION

XLS Series amplifiers provide extensive protection and diagnostic capabilities, including output current limiting, DC protection, circuit breaker, and thermal protection.

## CONSTRUCTION

XLS 1000/XLS 1500: 8.12-Inch (20.62cm) depth

XLS 2000/XLS 2500: 10.35-Inch (26.29cm) depth

**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 ft<sup>3</sup> (2.27 m<sup>3</sup>).

**Dimensions:** EIA Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B), 3.5-inch (8.9-cm) height.

XLS 1000/1500: 7.7-inch (19.6-cm) depth.

XLS 2000/2500: 10.7-inch (27.2-cm) depth.

## WEIGHT

### Net Weight:

XLS 1000: 8.6 lb (3.9 kg)

XLS 1500: 8.6 lb (3.9 kg)

XLS 2000: 10.8 lb (4.9 kg)

XLS 2500: 10.8 lb (4.9 kg)

### Shipping Weight:

XLS 1000: 13.6 lb (6.2 kg)

XLS 1500: 13.6 lb (6.2 kg)

XLS 2000: 15.8 lb (7.1 kg)

XLS 2500: 15.8 lb (7.1 kg)



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