

<b>Minimum Guaranteed Power per channel, both channels driven</b>				
	<b>XLS 1000</b>	<b>XLS 1500</b>	<b>XLS 2000</b>	<b>XLS 2500</b>
Stereo, 2 ohms (per ch.)	550W	775W	1050W	1200W
Stereo, 4 ohms (per ch.)	350W	525W	650W	775W
Stereo, 8 ohms (per ch.)	215W	300W	375W	440W
Bridge-Mono, 8 ohms	700W	1050W	1300W	1550W
Bridge-Mono, 4 ohms	1100W	1550W	2100W	2400W

Crown's XLS Series amplifiers define the standard for portable PA systems with unmatched performance, technology and affordability. Its advantageous flexibility includes multiple inputs so you can plug in anything and play anywhere, along with several system setup configurations. The integrated crossovers and switch-mode power supply produce superior sound, and Peak<sub>x</sub><sup>TM</sup> limiters protect your speakers. Weighing less than 12 pounds, compared to 40 pounds for its competitors, it's much easier to set up and move from show to show. Simply put, the XLS is most reliable, versatile, efficient amp available today.

## **XLS**

- XLS High Performance, Lightweight Class D amp weighs less than 11 lbs.
- Integrated PureBand<sup>TM</sup> Crossover System for better performance and control
- Peak<sub>x</sub><sup>TM</sup> Limiters provide maximum output while protecting your speakers
- XLR, 1/4", RCA inputs provide outstanding flexibility
- Efficient forced-air fans prevent excessive thermal buildup
- Electronically balanced XLR inputs; touchproof binding post and Speakon<sup>®</sup> outputs
- Precision detented level controls, power switch, power LED, and six LEDs which indicate signal, clip and fault for each channel

- Three-Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications

### **XLS Series with Integrated DriveCore™ Technology**

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 DriveCore™ Technology, PureBand™ Crossover System and Peak<sub>x</sub>™ limiters. And weighing in at only 10 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 XLS1000, XLS1500, XLS2000, and XLS2500 – 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!

### **Integrated DriveCore™ Technology**

Class D amplifiers are notable for extraordinarily high efficiency and being well suited for driving difficult reactive loads such as subwoofers. However, their performance can suffer impaired performance on marginal and unstable AC line supplies.

To overcome this obstacle, Crown engineers developed DriveCore™ Technology – a proprietary hybrid analog-digital integrated circuit (IC) developed with Texas Instruments that drives the "front end" of the Class D output stage. Over 60 years of Crown's design knowledge and experience went into the development of this technology resulting in truly remarkable benefits.

DriveCore™ Technology provides an extremely wide-tolerance with regards to sagging or "dirty" AC line conditions providing consistent performance without affecting audio quality. This means that your performance will not be compromised by fluctuating generator power or overloading by lighting rigs, backline gear, etc.

In addition, DriveCore™ Technology's patented feedback and PWM modulation circuits enable fast recovery on peak transients, accurate reproduction of low-level detail, and precise tracking of low-frequencies at high power levels for maximum subwoofer output.

### **Advanced Switched-Mode Power Supply**

This advanced power supply is highly efficient and optimized for maximum power transfer from the AC line through the Class D output stage to the loudspeakers. A benefit to this is substantial weight reduction when compared to older 60Hz transformer-based power supplies. All four models in the line weigh 10 pounds or less with no compromise in performance. This makes the XLS Series the benchmark for high performance

lightweight portability.

### **PureBand™ Crossover System**

The PureBand™ Crossover System in the XLS Series adds an enormous amount of flexibility and performance to any system. With this system, the crossover frequency is completely variable allowing the choice of any crossover point between 50Hz and 3kHz on 1/12 octave centers. The use of 4th order Linkwitz-Riley filters provides steep slopes for a seamless transition between high and low drivers. And with four crossover modes to choose from providing the ultimate in flexibility, all of your system needs are covered:

Crossover Mode (CH1=LPF, CH2=HPF) – When chosen, this mode enables a LowPass Filter on Channel 1 and a HighPass Filter on Channel 2 at the frequency chosen.

LowPass Mode (CH1=LPF, CH2=LPF) – When chosen, this mode enables a LowPass Filter on both Channel 1 and Channel 1 at the frequency chosen.

HighPass Mode (CH1=HPF, CH2=HPF) – When chosen, this mode enables a HighPass Filter on both Channel 1 and Channel 2 at the frequency chosen.

Bridge Mode (LPF or HPF) – When the amplifier is put into Bridge-Mono, you are still able to use the crossover system and employ either a LowPass Filter or HighPass Filter at the frequency chosen.

All of the PureBand™ Crossover System settings can be fully configured quickly and easily from the front panel using the intuitive LCD interface.

### **Peak<sub>x</sub>™ limiters**

Peak<sub>x</sub>™ limiters provide the ultimate in performance and protection for your entire system. This advanced algorithm was specifically developed and tuned to work with this amplifier and power-supply to achieve higher SPL will less audible artifacts. This means less distortion, less shutdowns, and maximum safe power delivered to your speakers. The Peak<sub>x</sub>™ limiters can be easily turned on or off by channel right from the front panel eliminating the need to be digging around in the back of the dark rack.

### **Specifications**

<b>Total Harmonic Distortion (THD)</b>	< 0.5%
<b>Intermodulation Distortion (IMD)</b>	(60Hz and 7kHz at 4:1) From full rated output to -30dB: <0.3%
<b>Damping Factor (8 ohm): 10 Hz to 400 Hz</b>	> 200
<b>Crosstalk (below rated 8Ω power)</b>	At 1kHz: > 85dB At 20kHz: >55dB

Input Impedance (nominal)	20 k $\Omega$ balanced, 10 k $\Omega$ unbalanced
Load Impedance	2 to 8 $\Omega$ per channel in Stereo 4 to 8 $\Omega$ in Bridge Mono
<b>AC Line Voltage and Frequency Configurations Available (<math>\pm</math> 10%)</b>	120 VAC 60 Hz 100 VAC 50/60 Hz 220 and 240 VAC 50 Hz
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> )
<b>Integrated Processing</b>	<p>PureBand™ Crossover System</p> <p>Crossover Filter: Linkwitz-Riley 24dB per Octave</p> <p>Crossover Frequency Range: 50 HZ - 3 kHz</p> <p>Crossover Mode: Crossover (CH1=LPF, CH2=HPF), LowPass (both channels LPF), HighPass (both channels HPF), Bridge (LPF or HPF).</p> <p>Peak<sub>x</sub>™ limiters: Channel independent clip limiter designed to provide maximum output while protecting your loudspeakers</p>
<b>Input/Output</b>	<p>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.</p> <p>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 bridgemono wiring or for stereo wiring of two speakers to a single Speakon connector.</p> <p>One pair of back-panel binding posts per channel; accepts</p>

	banana plugs or bare wire. (European models do not accept banana plugs.)
<b>Construction</b>	XLS1000/XLS1500: 8.12-Inch (20.62cm) depth XLS2000/XLS2500: 10.35-Inch (26.29cm) depth
<b>Dimensions</b>	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.
<b>Net Weight , Shipping Weight</b>	XLS1000: 8.6 lb (3.9kg), 13.6 lb (6.2 kg) XLS1500: 8.6 lb (3.9kg), 13.6 lb (6.2 kg) XLS2000: 10.75 lb (4.9kg), 15.8 lb (7.1 kg) XLS2500: 10.75 lb (4.9kg), 15.8 lb (7.1 kg)