

X s S E R I E S

Xs SERIES



The Xs Series of power amplifiers from Crown® represents a new era in affordable, quality power amplification. The line consists of four models in a uniform, rugged 2U chassis, incorporating the best of tried-and-true design principles and innovative features.

The four models in the series are the Xs500, Xs700, Xs900, and Xs1200. They are identical to the user except for output power.

Xs Series amplifiers are professional stereo power amplifiers engineered to meet demanding audio requirements—reliably and within budget. Every Xs Series amplifier is backed by Crown's unequaled Three-Year, No-Fault, Fully Transferable Warranty.

With over five decades of experience designing and building rock-solid products, Crown is the standard in amplifier technology.

For more details about the Xs 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.

Features

- Housed in a rugged, all-steel 2U chassis
- Efficient forced-air fan prevents excessive thermal buildup
- XLR-1/4" combo and Phoenix-style inputs, daisy-chain XLR outputs, touch-proof binding post outputs and Speakon® outputs
- Precision detented level controls, power switch, and eight LEDs which indicate signal and clip for each channel, power, AC mains, bridge mode, temperature and fault conditions
- Microprocessor-controlled protection system
- Three-Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications

Xs900

	1 kHz Power*
2-ohm Dual (per ch.)	1,200W**
4-ohm Dual (per ch.)	900W
8-ohm Dual (per ch.)	600W
4-ohm Bridge	2,500W**
8-ohm Bridge	2,100W

*1 kHz Power: refers to maximum average power in watts at 1kHz with 0.15% THD.

** at 0.5% THD.

Xs1200

	1 kHz Power*
2-ohm Dual (per ch.)	1,600W**
4-ohm Dual (per ch.)	1,100W
8-ohm Dual (per ch.)	650W
4-ohm Bridge	3,000W**
8-ohm Bridge	2,300W

*1 kHz Power: refers to maximum average power in watts at 1kHz with 0.15% THD.

** at 0.5% THD.

Xs500

	1 kHz Power*
2-ohm Dual (per ch.)	750W**
4-ohm Dual (per ch.)	500W
8-ohm Dual (per ch.)	400W
4-ohm Bridge	1,600W**
8-ohm Bridge	1,450W

*1 kHz Power: refers to maximum average power in watts at 1kHz with 0.15% THD.

** at 0.5% THD.

Xs700

	1 kHz Power*
2-ohm Dual (per ch.)	900W**
4-ohm Dual (per ch.)	750W
8-ohm Dual (per ch.)	450W
4-ohm Bridge	1,900W**
8-ohm Bridge	1,645W

*1 kHz Power: refers to maximum average power in watts at 1kHz with 0.15% THD.

** at 0.5% THD.

Specifications

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

Performance

Power Output: See power charts at left.

Sensitivity (volts RMS) for full rated power at 4 ohms: 1.4V*

Frequency Response (at 1 watt) 22 Hz to 22 kHz: ±1 dB.

Phase Response (degrees at 1 watt, 20 Hz to 20 kHz): +5°, -18°

Signal-to-Noise Ratio:

A-weighted, below rated power: > 102 dB.

22Hz to 22kHz, below rated power: > 97 dB.

Total Harmonic Distortion (THD) at full bandwidth power, from 20 Hz to 20 kHz: < 0.5%.

Intermodulation Distortion (IMD):

(60 Hz and 7 kHz at 4:1) from full rated output to -40 dB: < 1%. From full rated output to -30 dB: < 0.5%.

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

Crosstalk (below rated power):

Xs500 (1 kHz, 20 kHz): > 55 dB, > 55 dB

Xs700 (1 kHz, 20 kHz): > 55 dB, > 55 dB

Xs900 (1 kHz, 20 kHz): > 67 dB, > 62 dB

Xs1200 (1 kHz, 20 kHz): > 65 dB, > 45 dB

Voltage Gain (at maximum level setting):

Xs500: 32:1 (30.1 dB)

Xs700: 38:1 (31.6 dB)

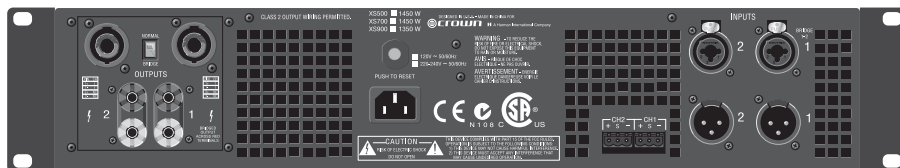
Xs900: 42:1 (32.5 dB)

Xs1200: 47.4:1 (33.5 dB)

*Except for rated output at 1 kHz at 0.5% THD in Dual mode with one channel driven into 4 ohms.



Xs SERIES



Load Impedance: Safe with all types of loads. 2 to 8 ohms in Stereo, 4 to 8 ohms in Bridge Mono.

AC Line Voltage and Frequency Configurations Available ($\pm 10\%$): 120VAC/60 Hz and 240VAC/50 Hz.

Controls

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

Power On: Front-panel switch; on when in the right-hand position.

Indicators

Signal: Two green LEDs, one for each channel, illuminates when the channel's input signal level is above -40 dBu.

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

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

AC Mains: Red front-panel LED indicates the presence of AC power at the power cord, even if the amplifier is not turned on.

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

Bridge: Yellow LED indicates that amplifier is in bridge mode.

Temp: Red LED indicates that channel(s) are in thermal protect mode.

Input/Output

Input Connectors:

XLR-1/4" combo connectors: One per channel, 3-pin female XLR connector and TRS 1/4" phone jack accept balanced or unbalanced signals.

3-pin Phoenix-style connectors: One per channel, accepts balanced or unbalanced signals.

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

Output Connectors:

Balanced XLR connectors: One per channel, 3-pin male XLR connector in parallel with XLR-1/4" combo and Phoenix-style input connectors for daisy-chain operation.

Binding post output connectors: One pair per channel; accepts banana plugs.

4-Pole Speakon output connector: One connector per channel. Accepts a 4-pole Speakon connector.

DC Output Offset (shorted input):

$< \pm 75$ millivolts.

Output Signal: Stereo, unbalanced, two-channel.

Protection

Xs Series amplifiers provide extensive protection and diagnostic capabilities, including output current limiting, microprocessor-controlled DC protection, circuit breaker, 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), 3.5 inch (8.9 cm) height and 17.14 inch (43.5 cm) depth behind the mounting surface.

Weight

Net Weight: 28 lb 14 oz (13.1 kg).

Shipping Weight: 34 lb (15.4 kg).



A Harman International Company

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 574-294-8200.

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