AMP-X750

X-Series Amplifier, 750 W

- *Compact 1 RU power amplifier*
- *Quiet, fanless convection-cooled design*
- *Up to 750 W of output power available across 3 output channels*
- *Configurable for either Lo-Z (4 or 8 Ω) or Hi-Z (70V or 100V) operation*
- *BUS line input and output for sending the same signal to multiple amps*
- *Low noise, low distortion, high headroom*
- *Comprehensive fault and speaker protection*
- *Captive speaker connectors for secure and robust connectivity*
- *Balanced and unbalanced inputs*
- *Standby feature instantly turns on amplifier when input sensing circuitry detects an audio signal*
- *Always On feature bypasses standby with minimal power consumption*
- *Internal universal 100-240V power supply*

The AMP-X750 is a high performance, compact, energy efficient, professional grade amplifier. Supporting Lo-Z and Hi-Z operation, this multichannel amplifier is suitable for both residential and commercial configurations.

Lo-Z (4/8 Ω) and Hi-Z (70V or 100V) Operation

The AMP-X750 is a 3-channel amplifier with up to 750 W of total available output power. Each amplifier channel can be configured for Lo-Z output to drive 4 or 8 Ω speakers or Hi-Z output to drive a 70V or 100V distributed speaker system. A stereo BUS line input and output are available, allowing an audio signal to be distributed to multiple amplifiers from one source. Alternatively, dedicated balanced and unbalanced inputs are provided for connection to a stereo source or up to three mono sources.

> **NOTE:** Each configuration can output up to its respective power rating.

Solid and Efficient Performance

The AMP-X750 is engineered to deliver exceptional performance and reliability with low distortion, low noise, and high power headroom. Advanced Class D technology maximizes efficiency to reduce power consumption and heat dissipation. An internal universal power supply ensures consistent performance at varying line voltages.

Stackable Design

The AMP-X750 is housed in a compact 1 RU form factor. Its efficient design ensures cool running operation and long term reliability. The amplifier is high-density stackable with other Crestron amps, allowing multiple units to be installed vertically in an equipment rack without needing extra ventilation space. Rack mount parts are included, so no additional mounting accessories or rack shelves are required.

Fully Protected

The AMP-X750 features protection against overheating, shorted or overloaded speaker lines, excessive input signals, and other faults. In the case of a shorted speaker line or overheating condition, affected outputs mute automatically until the fault condition is resolved.

Energy Efficient

In addition to its high efficiency under operation, the amplifier draws no added inrush current during power-up, thereby reducing AC circuit requirements and allowing multiple amplifiers to be connected to a single switched circuit. To reduce energy usage further, the AMP-X750 can be configured to enter a low-power standby state if no input signal is detected on any channel for 25 minutes. Signal detection sensitivity has been optimized to improve response time when triggering the amplifier to the on state, allowing it to return to full operation within a half-second. The REMOTE input can be connected to a contact closure to place the amplifier outputs in a controlled standby mode.

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Specifications

Audio

Input Signal Types	Balanced or unbalanced analog line-level
Output Power Per Channel (RMS, continuous up to 10 seconds)	250 W (4 or 8 Ω), 500 W (8 Ω only), 500 W (70V/100V) **NOTE:** Total simultaneous output power across all channels will not exceed 750 W
Frequency Response	20 Hz to 20 kHz ±0.5 dB at 1 W
High-Pass Filter (70V and 100V operation only)	-3 dB @ 80 Hz, -12 dB/octave
THD+N	<0.1% at 1 kHz @ -3 dB full rated output power
S/N Ratio	>103 dBA, 20 Hz to 20 kHz, balanced
Crosstalk	-75 dB at 1 kHz
Input Sensitivity	1.23 Vrms, +4 dBu balanced; 0.316 Vrms, -10 dBV unbalanced
Gain	29 dB @ 8 Ω
Protection	Overcurrent, undervoltage, overtemperature, DC offset, extreme high frequency
Go to Sleep Time	25 minutes with no signal present (when set to POWER SAVER)
Wake Time	0.5 s typical
Wake Threshold	0.44 mV typical

Connectors

CH1-CH3 (OUTPUT)	(3) 2-pin 5.08 mm pitch, 12A plug with screw locking retainers; Power amplifier output; Wire Size: Terminals accept up to 12 AWG (3.31 mm) **NOTE:** Output is direct-coupled, not transformer isolated.
AUDIO IN (UNBALANCED)	(3) RCA connectors, female; Maximum Input Level: 2.24 Vrms, +7 dBV (+9.2 dBu)
AUDIO IN (BALANCED)	(3) 3-pin 3.5 mm detachable terminal block; Balanced line-level audio inputs; Maximum Input Level: 7.75 Vrms, +20 dBu; Input Impedance: 20 kΩ
BUS INPUT	(2) paired RCA connectors, female; Unbalanced line-level audio inputs
BUS OUTPUT	(2) paired RCA connectors, female; Unbalanced line-level audio outputs, buffered
REMOTE	(1) 2-pin 3.5 mm detachable terminal block; Connect to dry contact closure to place amplifier in standby mode
Chassis Ground	(1) 6-32 screw; Chassis ground lug
100-240V~ 1.2-0.6A 50/60 Hz	(1) IEC 60320 C14 main power inlet; Mates with removable power cord, included

Controls & Indicators

PWR	(1) White/Red LED; White indicates amplifier is on and ready for use; Red indicates amplifier is in standby
HI-Z	(3) White LEDs (one per output); Indicates when Hi-Z mode is enabled (70V or 100V);
SIGNAL	(3) White LEDs (one per output); Indicates when an audio signal is present
FAULT	(3) Red LEDs (one per output); Indicates that the output channel is faulted or clipping
GAIN 1-3	(3) Screwdriver-adjustable rotary controls, one per output channel; Adjusts the attenuation level for the corresponding output channel
INPUT SEL 1-3	(3) Rotary controls, one per output channel; Selects input source from RCA, Balanced, BUS left/right, or BUS mono
OUTPUT 1-3	(3) Rotary controls, one per output channel; Selects 4-8 Ω 250 W, 8 Ω 500W, 70V, or 100V operation
Power Mode	(1) Slide switch; Selects Power Saver or Always On operation

Power

Main Power	1.2-0.6A @ 100-240VAC, 50/60 Hz
Power Consumption	170 W, (3 channels driven at 1/8th output power, 4 Ω); 8.8 W, idle; 0.35 W, power saver (115VAC/60 Hz)

Environmental

Temperature	41 to 104°F (5° to 40°C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	212 BTU/hr @ 4 Ω, all channels driven at 1/8th output power; 30 BTU/hr all channels idle; 1.2 BTU/hr in standby

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Construction

Chassis	Metal, convection cooled (fanless)
Front Panel	Metal, black finish with polycarbonate label overlay
Mounting	Freestanding or 1 RU 19 in. rack mountable; Stackable with other Crestron AMP series products (adhesive feet and rack mounting hardware all included)

Dimensions

Height	1.75 in (44 mm) without feet; 1.89 in (48 mm) with feet
Width	19.00 in (483 mm)
Depth	14.57 in (370 mm)

Weight

10.4 lb (4.7 kg)

Compliance

ErP (1275/2008/EC), UL® 62368, FCC Class B residential use

Model

AMP-X750
Modular Amplifier

Available Accessories

For a list of available accessories, visit the AMP-X750 product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

Specifications are subject to change without notice.

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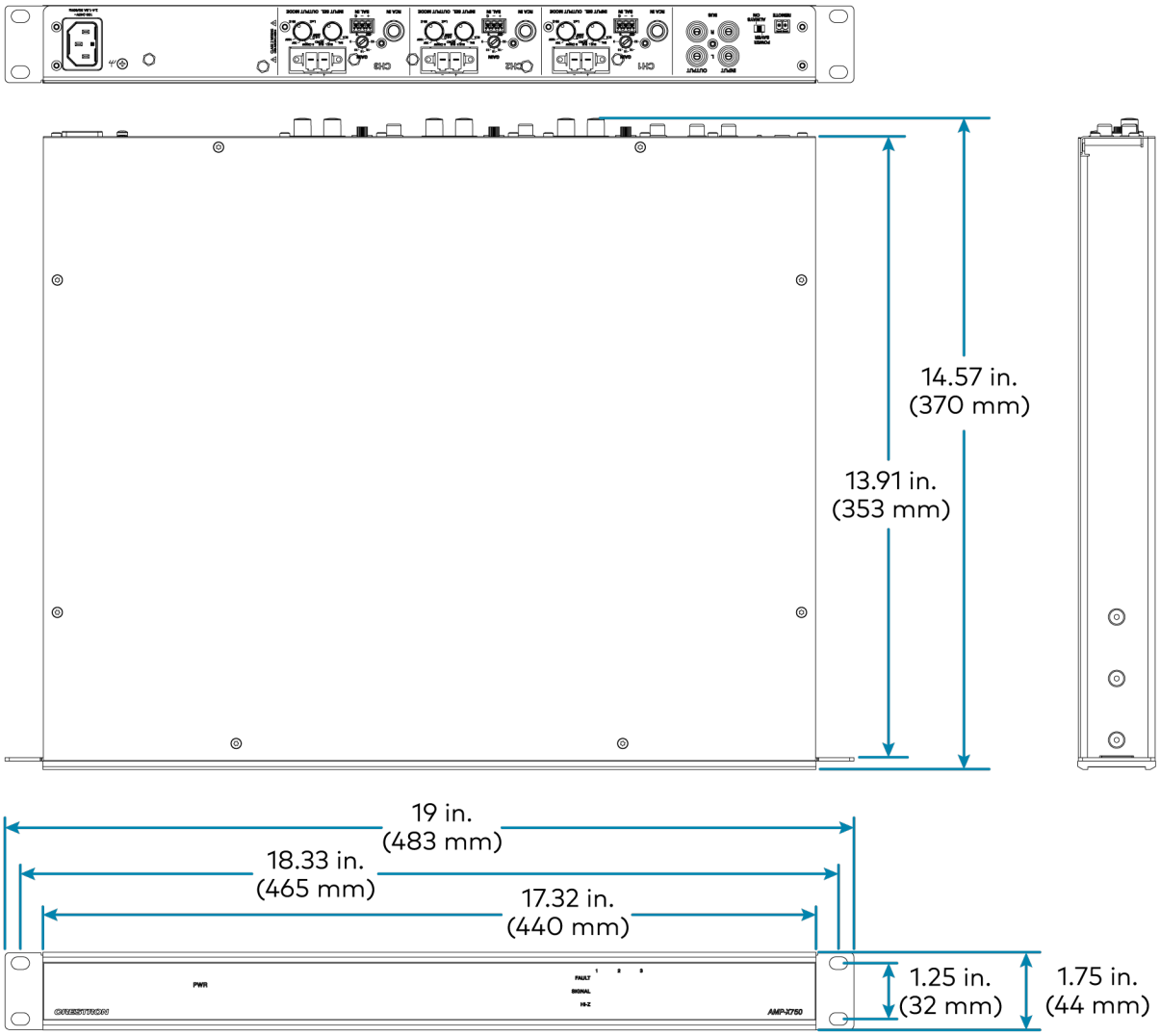

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