

AMP-150-70

Single-Channel Modular Power Amplifier, 50 W, 70 V



- *ENERGY STAR® certified power amplifier*
- *Ultra-efficient space-saving design*
- *70 V output*
- *Single channel, 50 W*
- *Quarter-width, 1 RU form factor*
- *Surface or rack mountable*
- *Gangable with other Crestron® modular amps*
- *All mounting and ganging hardware included*
- *High-density stackable*
- *Convection cooling — no mechanical fans*
- *Comprehensive fault and speaker protection*
- *Clip limiter*
- *Low noise, low distortion, high headroom*
- *Low power consumption*
- *Balanced and unbalanced inputs*
- *Detachable terminal blocks for easy servicing*
- *Front panel level adjustment with tamper-preventive magnetic cover*
- *Front panel power, fault, and signal/clip indicators*
- *Internal universal 100-240 V power supply*

The Crestron AMP-150-70 is a space saving, energy efficient, commercial grade amplifier solution that's totally configurable yet remarkably straightforward. Crestron® modular amps are simple to specify and install in any configuration.

All-Inclusive Modular Design

The AMP-150-70 is a Hi-Z modular amplifier housed in a quarter-width rack-mountable form factor that can be installed individually or ganged together in a single rack space. The AMP-150-70 ships with all the hardware required for installation of the unit by itself or in combination with any other unit(s). Rack and surface mount kits are included, so there are no other mounting accessories or rack shelves to purchase.

70 V Output

The AMP-150-70 is a single channel amplifier, conservatively rated at 50 W per channel, with a Hi-Z output to drive a distributed speaker system. The AMP-150-70 has a 70 V output. Output wiring is facilitated using a detachable terminal block. Balanced and unbalanced inputs are provided for connection to a mono or stereo (summed) source via a detachable terminal block or RCA connectors.

Solid & Efficient Performance

The AMP-150-70 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 with power factor correction ensures consistent performance at varying line voltages.

Convection Cooled

The ultra-efficient design of the AMP-150-70 ensures cool running operation without the use of internal fans. This means there's no fan noise and no moving parts to break down. Cool operation also helps to ensure long term reliability. The AMP-150-70 is high-density stackable with other Crestron modular amps, allowing multiple amplifiers to be installed vertically in an equipment rack without extra ventilation space in between.

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Fully Protected

The AMP-150-70 features comprehensive protection against overheating, shorted or overloaded speaker lines, excessive input signals, and other faults. Built-in clip limiting prevents extreme output signals and distortion that can damage the speakers or amplifier. In the case of a shorted speaker line or overheating condition, the output mutes automatically until the fault condition is resolved. In the event of a prolonged fault, such as an internal component failure, the output mutes instantly and the amplifier shuts down.

ENERGY STAR® Certified

Its energy-efficient design enables the AMP-150-70 to meet demanding ENERGY STAR requirements. Crestron modular amps, like the AMP-150-70, allow organizations to fulfill their green initiatives without compromising on audio performance. In addition to its high efficiency under operation, the AMP-150-70 draws no added inrush current during power-up, thereby reducing AC circuit requirements and allowing multiple units to be connected to a single switched circuit.

Specifications

Audio

Input Signal Types: Balanced or unbalanced analog line-level

Output Power: 50 W @ 70 V nominal

Frequency Response: 200 Hz to 20 kHz ± 0.5 dB

High-Pass Filter: -3 dB @ 80 Hz, 12 dB per octave

THD+N: <0.1%¹

S/N Ratio: >100 dBA, 20 Hz to 20 kHz, balanced

Input Sensitivity: 1.23 Vrms, +4 dBu balanced;
0.316 Vrms, -10 dBV unbalanced;
For full rated output power

Protection: Clip limiter, over current, under voltage, over temperature, DC offset, extreme high frequency

Connectors

SPEAKER OUT: (1) 2-pin 7.62 mm reversed gender 20 A detachable terminal block; Power amplifier output;
Wire Size: Terminals accept up to 12 AWG (3.31 mm²)

NOTE: Output is direct-coupled, not transformer isolated

AUDIO IN L/R (unbalanced): (2) RCA connectors, female;
Unbalanced line-level audio inputs (summed);
Maximum Input Level: 2.24 Vrms, +7 dBV (+9.2 dBu)

AUDIO IN L/R (balanced): (1) 5-pin 3.5 mm detachable terminal block;

Balanced line-level audio inputs (summed);
Maximum Input Level: 7.75 Vrms, +20 dBu;
Input Impedance: 20k Ohms

G: (1) 6-32 screw;
Chassis ground lug

100-240V~1A 50/60 Hz: (1) IEC 60320 C14 main power inlet;
Mates with removable power cord, included

Controls & Indicators

PWR: (1) Green LED, indicates operating power supplied from AC line power

FAULT: (1) Red LED; indicates an over-temperature or over-current fault

SIGNAL: (1) Bi-color green/red LED, green indicates input signal presence and red indicates input signal clipping

Input Level: (1) Screwdriver-adjustable rotary control, adjusts the input attenuation level, tamper-preventive magnetic cover included

Power

Main Power: 1 A @ 100-240 VAC, 50/60 Hz

Power Consumption: 17 W, channel driven at 1/8th output power;
8 W, idle

Environmental

Temperature: 41° to 104° F (5° to 40° C)

Humidity: 10% to 90% RH (non-condensing)

Construction

Chassis: Metal, convection-cooled (fanless), vented front and rear

Front Panel: Metal, black finish with polycarbonate label overlay

Mounting: Freestanding, surface-mount, or 1/4-width 1 RU 19 in. rack-mountable; gangable with other Crestron modular AMP series products (adhesive feet, surface mounting kit, ganging kit, and rack mounting kit included)

Dimensions

Height: 1.74 in. (45 cm) without feet;
1.82 in. (47 mm) with surface kit

Width: 4.33 in. (110 mm);
5.43 in. (138 mm) with surface kit;
19.00 in. (483 mm) with rack kit

Depth: 10.46 in. (266 mm)

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Weight

1.9 lb (0.9 kg) without mounting kits
2.2 lb (1.0 kg) maximum with surface or rack kit

Compliance

ENERGY STAR, ErP (1275/2008/EC), UL 60065, FCC Class A commercial use

Model & Accessories

Available Model

AMP-150-70
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Available Accessories

CBL Series

Crestron® Certified Interface Cables

AUD-EXT

Audio over CAT5 Extenders

Notes:

1. Measured at full power.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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.

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