

# AMP-225

## Dual-Channel Modular Power Amplifier, 25 W/Ch., 4/8 Ω



- *ENERGY STAR® certified power amplifier*
- *Ultra-efficient space-saving design*
- *Two channels, 25 W per channel at 4/8 Ω*
- *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 limiters*
- *Low noise, low distortion, high headroom*
- *Low power consumption*
- *Balanced and unbalanced inputs*
- *Detachable terminal blocks for easy servicing*
- *Front panel level adjustments with tamper-preventive magnetic cover*
- *Front panel power, fault, and signal/clip indicators*
- *Internal universal 100-240 V power supply*

The Crestron AMP-225 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-225 is a Lo-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-225 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.

### 4/8 Ω Output

The AMP-225 is a dual channel amplifier, conservatively rated at 25 W per channel, with Lo-Z outputs to drive 4 or 8 Ohm speakers. Output wiring is facilitated using detachable terminal blocks. Balanced and unbalanced inputs are provided for connection to one stereo or two mono source(s) via a detachable terminal block or RCA connectors.

### Solid & Efficient Performance

The AMP-225 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-225 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-225 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-225 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, both outputs mute automatically until the fault condition is resolved. In the event of a prolonged fault, such as an internal component failure, the outputs mute instantly and the amplifier shuts down.

### ENERGY STAR® Certified

Its energy-efficient design enables the AMP-225 to meet demanding ENERGY STAR requirements. Crestron modular amps, like the AMP-225, allow organizations to fulfill their green initiatives without compromising on audio performance. In addition to its high efficiency under operation, the AMP-225 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:** 25 W per channel @ 4-8 Ohms

**Frequency Response:** 20 Hz to 20 kHz ±0.5 dB

**THD+N:** <0.1% at full rated output power

**S/N Ratio:** >100 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;  
For full rated output power

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

### Connectors

**SPEAKER OUT 1 – 2:** (2) 2-pin 7.62 mm reversed gender 20 A detachable terminal blocks; Power amplifier outputs;  
Wire Size: Terminals accept up to 12 AWG (3.31 mm<sup>2</sup>)

**NOTE:** Output is direct-coupled, not transformer isolated

**AUDIO IN 1 – 2 (unbalanced):** (2) RCA connectors, female;  
Unbalanced line-level audio inputs;  
Maximum Input Level: 2.24 Vrms, +7 dBV (+9.2 dBu)

**AUDIO IN 1 – 2 (balanced):** (1) 5-pin 3.5 mm detachable terminal block;

Balanced line-level audio inputs ;

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 – 2:** (2) Red LEDs; each indicates an over-temperature or over-current fault on the corresponding channel

**SIGNAL 1 – 2:** (2) Bi-color green/red LEDs, green indicates input signal presence and red indicates input signal clipping on each corresponding channel

**Input Level 1 – 2:** (2) Screwdriver-adjustable rotary controls, each adjusts the input attenuation level for the corresponding channel, tamper-preventive magnetic cover included

### Power

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

**Power Consumption:** 17 W, both channels 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

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

### Compliance

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

### Model & Accessories

#### Available Model

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**AMP-225**  
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#### Available Accessories

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**CBL Series**  
Crestron® Certified Interface Cables

**AUD-EXT**  
Audio over CAT5 Extenders

### Notes:

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](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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