

## Media Presentation Audio Amplifier, 70 or 100 Volt

- > Compact single-channel power amplifier
- > ENERGY STAR® qualified<sup>[1]</sup>
- > 40 Watts at 70 or 100 volts (mono)
- > Transformer isolated output
- > High-efficiency Class D topology
- > Energy saving design reduces power consumption when idle
- > Convection cooled for noiseless operation
- > Simple volume, bass, and treble adjustments
- > Electronic short-circuit and overload protection
- > Detachable terminal block speaker connection
- > Balanced line input via detachable terminal block
- > Unbalanced RCA line input, 3' cable included
- > Built-in stereo to mono summing
- > Includes surface mounting brackets
- > UL 2043 compliant for installation within a plenum-rated suspended ceiling<sup>[2]</sup>



The Crestron® MP-AMP40 series offers a choice of 70V or 100V audio amplifiers, each designed to provide a convenient, low-cost amplifier solution for a variety of applications. These amplifiers are ENERGY STAR® qualified to enable organizations to fulfill their green initiatives without compromising on audio performance.<sup>[1]</sup> Each model is equipped for shelf or surface-mounting to enable installation virtually anywhere without requiring an equipment rack. Each model meets the requirements of UL 2043 for installation in an environmental air-handling (plenum) space, such as above a suspended ceiling<sup>[2]</sup>.

Two models are offered. The MP-AMP40-70V has a 70 Volt output, and the MP-AMP40-100V has a 100 Volt output. High-efficiency Class D circuitry delivers 40 Watts to drive a distributed speaker system in a meeting room, classroom, or any other space. The output is transformer isolated to handle long and complex wire runs.

Refined, reliable operation is ensured thanks to pop-free turn-on circuitry and electronic short-circuit and overload protection. An energy-saving design achieves optimum efficiency under load, and the amplifier powers down automatically when no input signal is detected for more than 5 minutes, reducing overall power consumption and heat as part of a green system design. The amplifier quickly powers back on the instant an input signal is detected. Its extruded aluminum housing is both attractive and effective at dissipating heat, affording a silent running design without cooling fans.

Installation and setup is simple. A detachable output connector facilitates the termination of speaker wiring up to 12 gauge. Balanced and unbalanced inputs accommodate either a mono or stereo line-level source<sup>[3]</sup>, allowing for direct connection to the output of a video projector or display, audio processor, mixer, or AV switcher. Rotary controls provide for adjusting the overall output volume, as well as bass and treble.

## SPECIFICATIONS

### Audio

**Input Volume Range:** -60dB to +15dB

**Bass Gain Range:** ±10dB @ 100Hz

**Treble Gain Range:** ±12dB @ 10kHz

**Frequency Response:** 80Hz to 20kHz ±2.5dB

**S/N Ratio:** 75dB 80Hz to 20kHz A-weighted

**THD+N:** 0.5% @ 1kHz

**Output Power (MP-AMP40-70V):** 40 Watts at 70 Volts  
(Transformer isolated)

**Output Power (MP-AMP40-100V):** 40 Watts at 100 Volts  
(Transformer isolated)

**Amplifier Protection:** Electronic short-circuit and overload protection

**Input Detection Threshold:** 30mV RMS @ 1kHz

### Connectors

**AUDIO IN, L/MONO & R (unbalanced):** (2) RCA female;

Unbalanced stereo or mono line-level audio input<sup>[3]</sup>;

Maximum Input Level: 2 Vrms mono, 1 Vrms stereo;

Input Impedance: 15k Ohms;

3 ft (0.9 m) stereo RCA-RCA cable included

**AUDIO IN, L/MONO & R (balanced):** (1) 5-pin 3.5mm detachable terminal strip;

Balanced/unbalanced stereo or mono line-level audio input<sup>[3]</sup>;

Maximum Input Level: 2 Vrms mono, 1 Vrms stereo;

Input Impedance: 15k Ohms

**AUDIO OUT 70V (MP-AMP40-70V only):** (1) 2-pin 5mm detachable terminal block; 70V speaker-level audio output;

Wire Size: Connector accepts 12 AWG maximum;

Output Power: 40 Watts at 70 Volts

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MP-AMP40-70V – Rear View

**AUDIO OUT 100V (MP-AMP40-100V only):** (1) 2-pin 5mm detachable terminal block; 100V speaker-level audio output;  
Wire Size: Connector accepts 12 AWG maximum;  
Output Power: 40 Watts at 100 Volts

**PWR 24VDC 2.0A:** (1) 2.1 x 5.5 mm DC power connector;  
24 Volt DC power input (power pack included)

**G:** (1) 6-32 screw, chassis ground lug

## Controls & Indicators

**PWR:** (1) green LED, indicates operating power supplied from external power pack

**BASS:** Rotary low frequency boost/cut adjustment, flat at center detent

**TREBLE:** Rotary high frequency boost/cut adjustment, flat at center detent

**VOL:** Rotary input level adjustment

## Power Requirements

**Power Pack:** 2.0 Amps @ 24 Volts DC;  
100-240 Volts AC, 50/60 Hz power pack included<sup>[1]</sup>

**Power Consumption:** 14 Watts at 1/8th output power;  
6.2 Watts idle;  
750 mW standby

## Environmental

**Temperature:** 41° to 122°F (5° to 50°C)

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

**Heat Dissipation:** 26 BTU/Hr at 1/8th output power

## Enclosure

**Chassis:** Aluminum w/polycarbonate label overlay, vented rear, meets the requirements of UL 2043 for installation in an environmental air-handling (plenum) space<sup>[2]</sup>

**Faceplate:** Plastic w/polycarbonate label overlay

**Mounting:** Freestanding or surface mount (adhesive feet and mounting brackets included)

## Dimensions

**Height:** 2.38 in (61 mm) with feet;  
2.45 in (62 mm) with bracket

**Width:** 8.12 in (207 mm);  
9.40 (239 mm) with bracket

**Depth:** 5.87 in (149 mm)

## Weight

3.4 lb (1.6 kg)

## MODELS & ACCESSORIES

### Available Models

**MP-AMP40-70V:** Media Presentation Audio Amplifier, 70 Volt

**MP-AMP40-100V:** Media Presentation Audio Amplifier, 100 Volt

### Available Accessories

**CBL Series:** Crestron® Certified Interface Cables

**CBL-KAUDIO-RCAM2-L-P-50:** RCA Stereo Audio Cable Kit, Plenum, 50 ft

**CBL-PWR-EXT24V-P-6:** DC Power Extension Cable, Plenum, 6 ft

**MP-WP Series:** Media Presentation Wall Plates

**MPI-WP Series:** Media Presentation Wall Plates - International Version

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## Notes:

1. The MP-AMP40-70V and MP-AMP40-100V are ENERGY STAR qualified only when using the included power pack. Power pack meets ENERGY STAR Version 2.0 Efficiency Level V standards in compliance with EISA Section 301 (US), CECP Tier 2 (China), MEPS Tier 2 (Australia), and CoC (EU).
2. The MP-AMP40-70V and MP-AMP40-100V are tested by an NRTL (Nationally Recognized Testing Laboratory) and comply to ANSI/UL2043 (Fire Test For Products Installed in Air-Handling Spaces). Full compliance requires plenum rated cables such as Crestron [CBL-KAUDIO-RCAM2-L-P-50](#) audio cable, [CBL-SPK-P-35](#) speaker cable, and [CBL-PWR-EXT24V-P-6](#) DC power extension cable. Please note that the included power pack is not ANSI/UL2043 compliant, and thus cannot be installed in an air-handling space unless enclosed in a suitable plenum-rated enclosure.
3. Stereo input is internally summed to mono.

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).

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