

Media Presentation Audio Amplifier, 70 or 100 Volt

- > Compact single-channel power amplifier
- > ENERGY STAR® qualified^[1]
- > 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^[2]



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.^[1] 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^[2].

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^[3], 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^[3];

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^[3];

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^[1]

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^[2]

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

Included 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 or by calling 800-237-2041.

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

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