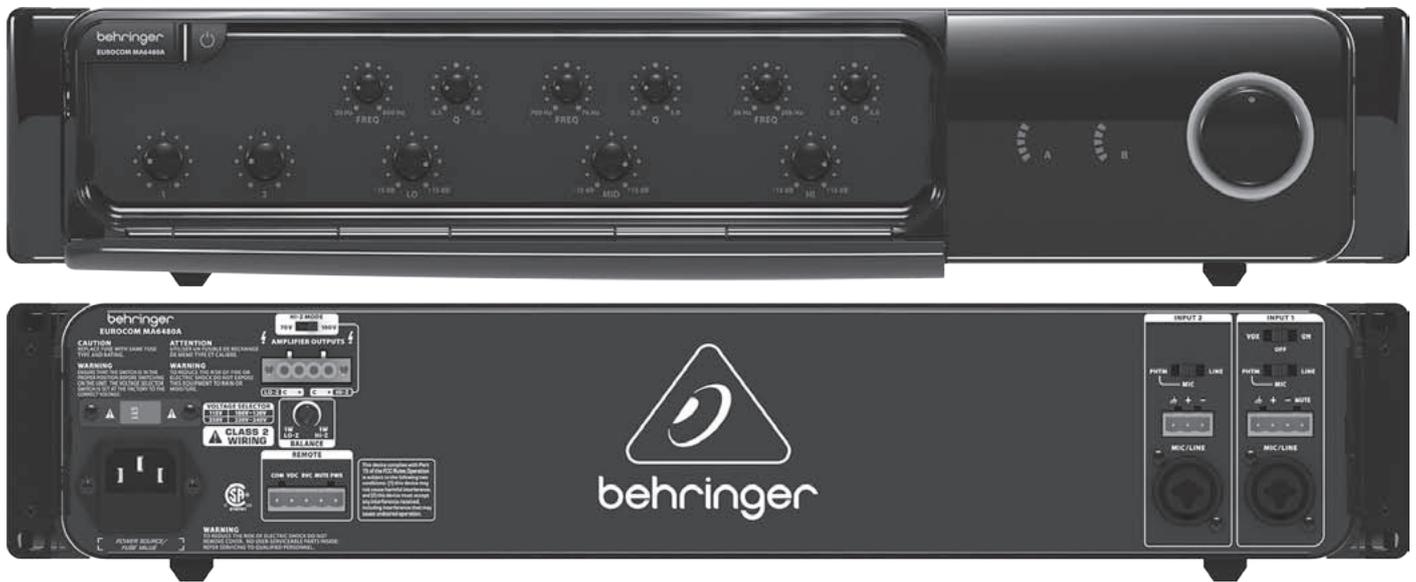


# MA6480A

Energy-Efficient, Multi-Function 240-Watt Mixing Amplifier with Dual 70/100 V and 4 Ohms Outputs



## Features

- Multi-function 240-Watt mixing amplifier with dual 70/100 V and 4  $\Omega$  outputs, designed for continuous operation in distributed music, paging and AV applications
- State-of-the-art, energy-saving Switch-Mode Power technology with up to 77% power efficiency drastically reduces energy cost
- 2 transformerless, cool-running Class-D amplifiers simultaneously drive 70/100 V and 4  $\Omega$  loads with adjustable Balance control
- 2 Mic/Line inputs on Euroblock and XLR/TRS connectors, each with switchable Mic/Line and Phantom Power
- Input 1 features contact-activated muting and priority 'voice over' switch
- Wired Remote volume, power and mute control connector
- Individual front panel input Level controls and 3-band fully parametric equalization with Frequency and Q control
- Auto-dimming control illumination, dual channel VU meter, Power switch, and dual-function indicator ring surrounding Master volume control
- Main mix output on Euroblock connector with selectable 70/100 V and 8  $\Omega$  outputs
- Detachable rack ears, screw covers, blank knob caps for control lock-out, IEC-type AC power cord and all mating Euroblock connectors included
- Independent DC and thermal overload protection plus automatic limiters for each amplifier prevent overload, clipping and distortion without shutting down audio
- Ultra-light, ultra-low noise and ultra-efficient switch-mode power supply for noise-free audio, superior transient response and low power consumption
- High-quality components and exceptionally rugged construction ensure long life



# MA6480A

## Energy-Efficient, Multi-Function 240-Watt Mixing Amplifier with Dual 70/100 V and 4 Ohms Outputs

### Product Overview

The EUROCOM MA6480A is a professional rack-mountable power amplifier for installed sound applications in commercial settings such as hospitality, retail, fitness, business, and education. Incorporating BEHRINGER's exclusive DualDrive technology, the MA6480A is powered by two independent mono amplifiers, one with a high impedance output that may be set to either 70 or 100 V, and the other with a standard low-impedance output. This uniquely versatile configuration enables easy installation and setup of hybrid multi-zone systems combining distributed and low-impedance speakers, making the MA6480A an innovative yet practical solution for a broad range of installed sound environments.

The MA6480A includes two channels for balanced or unbalanced input from line-level sources or microphones, either standard or phantom powered. Both channels accept input via XLR/TRS (¼-inch) combination jacks. Additionally, channel 2 accepts input from a 3-pin Euroblock connector, and channel 1 accepts input from a 4-pin Euroblock connector with a control pin. Channel 1 also has a priority mode switch that selects between always-on, voice-activated, or control-pin activated. The channel 2 input can be muted whenever the channel 1 input is active. The level at which each channel is sent to the two power amplifiers is set with individual front-panel level controls. The power amplifier outputs for both high- and low-Z appear on a single 4-pin Euroblock connector. The MA6480A also includes a 5-pin Euroblock for remote control.

The MA6480A front panel includes a master level (main mix) knob that is surrounded by an indicator ring that glows yellow when the unit is powered and flashes red at the onset of clipping. A 3-band fully-parametric EQ is provided to optimize the output for any environment. Also included is an LED meter indicating the output level to the power amplifiers.

MA6480A operation is both cool and extraordinarily energy-efficient thanks to transformerless Class-D amplifiers that utilize switch-mode power supplies. The amplifiers deliver 240 W into low-Z loads of 4 Ω and high-Z outputs of 70 or 100 V. A balance control adjusts the relative output of the two amps. Each amplifier is protected with DC and thermal overload protection, as well as by automatic limiting that prevents overload, clipping, and distortion.

Well-suited to any installed power amp application, the EUROCOM MA6480A makes a perfect complement to the rest of the MA6000 series, providing added power amp channels simultaneously for both high-Z and low-Z loudspeaker systems. Integrating quality, style, and power into a single DualDrive package, the MA6480A is an exceptional value for installed sound amplification.

# MA6480A

## Energy-Efficient, Multi-Function 240-Watt Mixing Amplifier with Dual 70/100 V and 4 Ohms Outputs

### Technical Specifications

#### Audio Inputs

##### Mic / Line inputs 1 & 2

- Type 2 x XLR / ¼" TRS combo jacks  
1 x 4-pin Euroblock in parallel and  
1 x 3-pin Euroblock in parallel
- Impedance Mic: -50 dBV, 600 Ω  
Line: 0 dBV, 600 Ω  
Electronically balanced

Phantom power 24 VDC, switchable Inputs 1– 2

#### Audio Outputs

- Amplifier output 1 x 4-pin female Euroblock
- LO-Z 2 terminals @ 4 Ω
  - HI-Z 2 terminals @ 70 V / 100 V, switchable
  - Output regulation < 2 dB, no load to full load

#### Amplifier

Amplifier channels LO-Z: 1 x 4 Ω, minimum  
HI-Z: 1 x 70 / 100 V, switchable

Power output LO-Z 240 W RMS @ 4 Ω

1% THD, 1 kHz sine wave

- Min. impedance 4 Ω

Power output HI-Z 240 W RMS @ 70 V

1% THD, 1 kHz sine wave 240 W RMS @ 100 V

- Min. impedance 20 Ω @ 70 V  
42 Ω @ 100 V

#### System Information

- Dynamic range Mic: 65 dB  
Line: 80 dB
- THD + N 0.5% @ 1 kHz, rated output
- Frequency response 50 Hz - 18 kHz, ±2 dB
- Tone controls Low: ±15 dB at 20 Hz - 800 Hz,  
Mid: ±15 dB at 700 Hz - 7 kHz,  
High: ±15 dB at 5 kHz - 20 kHz,  
Q: 0.5 to 5

#### Control Connections

- Remote 1 x 5-pin Euroblock connector
- Common -5 VDC, 100 mA current,  
short-circuit protected
  - Remote power +5 VDC, 100 mA current limited,  
short-circuit protected
  - RVC 10 kΩ linear-taper potentiometer
  - Unit power on/off +5 VDC voltage make contact input,  
no open voltage
  - Mute No-voltage make contact input;  
open voltage 5 VDC  
Short circuit: < 10 mA
- Input 1
- Control No-voltage make contact input;  
open voltage 5 VDC  
Short circuit: < 10 mA

#### Indicators

- Power LED ring illumination (Yellow)
- Overload / protection LED ring indication (Red)
- Output level LED VU output meter  
(Yellow and Red while clipping)

#### Power Supply (Fuses)

- Mains voltage Switchable, 100-120 / 220-240 VAC  
60/50 Hz
- Fuse T 6.3 AH 250 V / T 3.15 AH 250V
- Power efficiency 77% max.
- Power consumption 39 W @ idle  
120 W @ 1/8 power  
240 W @ 1/3 power  
620 W @ full power
- Mains connector Standard IEC receptacle

#### Dimensions / Weight

- Dimensions (H x W x D) 3.5 x 17 x 16" / 88 x 432 x 406 mm
- Weight 12.8 lbs / 5.8 kg

# MA6480A

## Energy-Efficient, Multi-Function 240-Watt Mixing Amplifier with Dual 70/100 V and 4 Ohms Outputs

### Architect's and Engineer's Specifications

The amplifier shall be of rack-mountable design using two mono transformerless Class D power amplifiers with switch-mode power supplies, one low-Z and one high-Z (70/100 V) for distributed speaker systems.

**Front-panel controls and indicators** shall include the following:

- Power button (latching) turns the unit on and off
- Master Level knob sets output level to power amps
- Indicator ring shows power (yellow) and clipping (flashing red)
- Master level LED meters indicate level of main output to amps
- Input level knobs set the level of inputs 1 and 2
- 3-band fully-parametric EQ

**Rear-panel controls and indicators** shall include:

- Balance screw pot adjusts the relative output of the two amps
- High-Z mode switch sets high-Z amp to 70 or 100 V
- Channel input switches selects the input for channels 1 and 2, either line level, mic level, or mic with phantom power
- Priority mode switch on channel 1 selects between always on, voice-activated, or control-pin activated

**Connections** to the amplifier shall include:

- Mic/Line inputs on two XLR/TRS (¼-inch) combination jacks, one 3-pin Euroblock connector, and one 4-pin Euroblock connector with control pin
- Output for both high- and low-Z on a 4-pin Euroblock connector
- Remote control input on 5-pin Euroblock connector
- AC power on IEC receptacle

**Protections** incorporated into the amplifier shall include automatic limiting and independent DC and thermal overload protection.

**Performance criteria** met by the amplifier shall include:

- RMS power output (1 kHz @ 1% THD) of 240 W for both low-Z (4 Ω) and high-Z (100/70 V) amplifiers
- Frequency Response of 50 Hz - 50 kHz (±2 dB)
- Distortion (THD, 1 kHz) of 0.5% at rated output
- Dynamic range of greater than 80 dB for all inputs

# MA6480A

## Energy-Efficient, Multi-Function 240-Watt Mixing Amplifier with Dual 70/100 V and 4 Ohms Outputs

### Architect's and Engineer's Specifications Continued

**AC Power requirements** of the amplifier shall be:

- Mains voltage of 100, 115, or 230 VAC (Universal power supply), at 50/60Hz
- Power consumption ranging from 39 W idle to 620 W full power
- Power efficiency of not less than 77%

**Physical characteristics** of the amplifier shall be:

- Height x Width x Depth of 3.5 x 17 x 16" / 89 x 432 x 406 mm
- Net weight of 15.0 lbs / 6.8 kg

The amplifier shall be the BEHRINGER EUROCOM MA6480A.

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## Dimensional Drawings:



### REAR

449.58 mm [17.7 in]

444.5 mm [17.5 in]

302.26 mm [11.9 in]

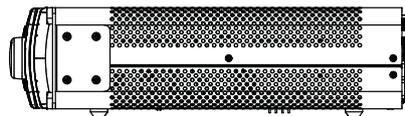
350.05 mm [13.8 in]

### TOP

88.9 mm [3.5 in]

96.63 mm [3.8 in]

### FRONT



### SIDE