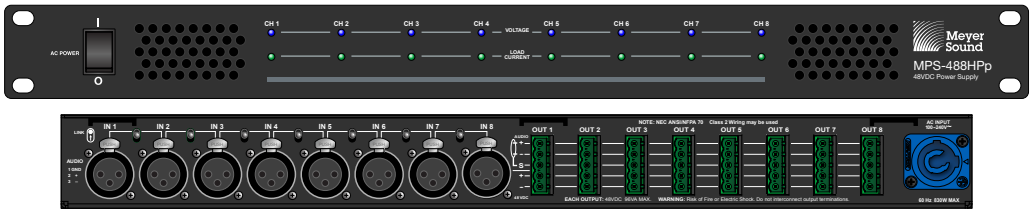
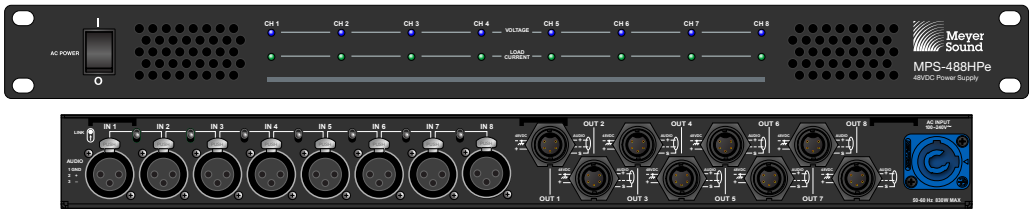
MPS-488HP : Power Supply

thinking sound Meyer Sound



MPS-488HPp with Phoenix Output Connectors



MPS-488HPe with EN3™ Output Connectors

The MPS-488HP external power supply delivers DC power and balanced audio to up to eight Meyer Sound loudspeakers that require an external 48 V DC power supply. The single-space 19-inch rack MPS-488HP can be used with the UP-4XP ultracompact loudspeaker, MM-4XP miniature loudspeaker, MM-10XP miniature subwoofer, and HMS-10 surround loudspeaker.

Meyer Sound's externally powered loudspeakers are equipped with onboard amplification and signal-processing circuits that store DC power and tolerate voltage drops (up to 30%), thereby accommodating light-gauge cables and lengthy cable runs. Powering loudspeakers from an external source eliminates the need for wiring conduits while still preserving the advantages of self-powered systems.

The MPS-488HP receives eight channels of balanced audio from its XLR female input connectors and routes the audio, along with 48 V of DC power, to its eight output connectors. Input channels feature toggle switches that route inputs to corresponding channel outputs only, or to adjacent, contiguous channel outputs. For example, channel input 1 can be routed to channel outputs 1 and 2 and channel input 3 can be routed to channel outputs 3 and 4. Another example would be to route channel input 1 to channel outputs 1–4 and channel input 5 to channel outputs 5–8.

The MPS-488HP's eight channel outputs are equipped with sophisticated microprocessor-controlled current limiting that protects each channel from short circuits and unexpected voltages. The power supply's outputs are available as either Phoenix 5-pin male connectors on the MPS-488HPp model, or SwitchCraft® EN3 5-pin female connectors on the MPS-488HPe model. Outputs can deliver DC power to loudspeakers at cable lengths up to 150 feet or 300 feet (depending on the loudspeaker model) with just 1 dB of loss in peak SPL using 18 AWG wire. The use of composite multiconductor cables (such as Belden® 1502) allows a single cable to carry both audio and DC power from the MPS-488HP to the loudspeakers. Longer cable lengths are possible for moderate applications that don't drive the loudspeakers to maximum output, as well as for installations with heavier wire gauges.

The MPS-488HP front panel has two LEDs per channel output that provide useful feedback on the status of the system. The voltage LEDs indicate when voltage is present for each channel output. The load current LEDs indicate when a loudspeaker is connected to a channel output, glow brighter as the signal level increases, and flash when a short circuit is encountered.

PRELIMINARY SPECIFICATIONS

Audio Input	8 XLR female connectors Link switches to route to outputs
Outputs	8 channels of Phoenix 5-pin connectors or EN3 5-pin connectors (3 pins for balanced audio, 2 pins for DC power)
Output Voltage	8 channels of 48 V DC (internally protected against short circuits)
Front Panel	On-off switch 8 LEDs to indicate output voltage 8 LEDs to indicate current
AC Connector	PowerCon
Current Draw Range	(8 loudspeakers connected) *Note: Current draw values vary with number and model of loudspeakers connected. MM-4XPs represent bottom of current draw range, HMS-10s represent top; other supported loudspeakers fall between.*
Idle Current *Max. Long-Term Continuous Current (>10 sec)* *Burst Current (<1 sec)*	0.78–1.37 A rms (115 V AC), 0.68–0.86 A rms (230 V AC), 0.86–1.60 A rms (100 V AC) 1.9–8.4 A rms (115 V AC), 1.0–4.2 A rms (230 V AC), 2.2–9.8 A rms (100 V AC) 2.4–13.1 A rms (115 V AC), 1.2–7.5 A rms (230 V AC), 2.8–13.5 A rms (100 V AC)
Dimensions	1RU high 19.00" w x 1.73" h x 13.57" d (482.60 mm x 43.94 mm x 344.78 mm)
Weight	15.5 lbs (6.6 kg)

CE N775
www.meyersound.com
Made in USA with domestic and foreign parts
(Pending)

TÜV Rheinland of North America, Inc. C US
(Pending)

MPS-488HP — 04.205.004.01 A

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