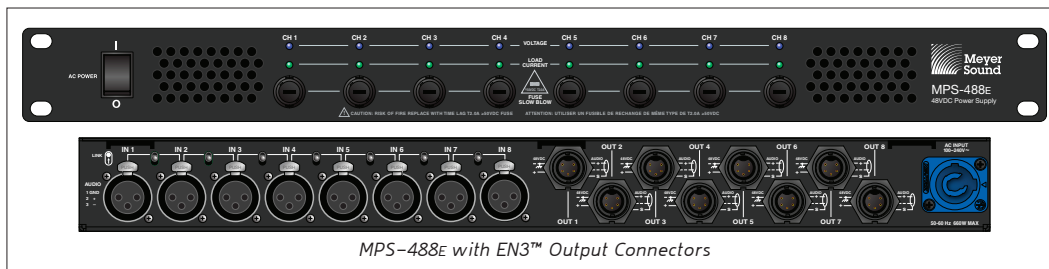
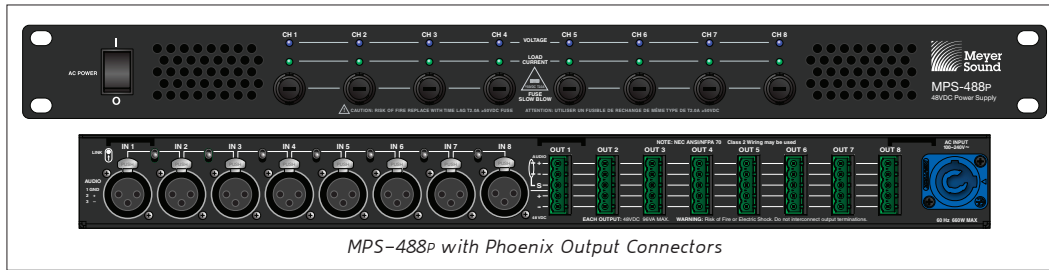




# MPS-488P / MPS-488E : Power Supplies



The MPS-488 external power supply delivers DC power and balanced audio to up to eight MM-4XP loudspeakers. The MM-4XP is a self-powered, miniature loudspeaker designed for high-quality distributed systems. Housed in a compact aluminum enclosure, the MM-4XP is especially suitable for installations involving space limitations and visibility. The MPS-488 is the required method of powering MM-4XP loudspeaker systems.

The single-space 19-inch rack MPS-488 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 could be routed to channel outputs 1 and 2

and channel input 3 could 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 power supply's eight channel outputs are available as either 5-pin Phoenix connectors on the MPS-488P model, or 5-pin SwitchCraft® EN3 connectors on the MPS-488E model. Outputs can deliver DC power to the MM-4XP loudspeakers at cable lengths of up to 300 feet 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-488 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-488 front panel has two LEDs per output channel that provide useful feedback on the status of the system. The voltage LEDs indicate when voltage is present for each output channel. The load current LEDs indicate when a loudspeaker is connected to an output channel and glow brighter as the signal level increases.

Amplifier and signal processing circuits for the MM-4XP are designed to tolerate voltage drops of up to 30 percent, thereby accommodating light-gauge cables and long cable runs. Internal energy storage circuits for the MM-4XP minimize the system's peak-to-average current demands, ensuring efficient use of the MPS-488's 48 V DC output.

## PRELIMINARY SPECIFICATIONS

<b>Audio Input</b>	8 XLR female connectors Link switches to route to outputs
<b>Outputs</b>	8 channels of 5-pin Phoenix connectors or 5-pin EN3 connectors (3 pins for balanced audio, 2 pins for DC power)
<b>Output Voltage</b>	8 channels of 48 V DC (2.0 A, fuse protected)
<b>Front Panel</b>	On-off switch 8 LEDs to indicate output voltage 8 LEDs to indicate current
<b>AC Connector</b>	PowerCon
<b>Current Draw</b>	
<i>Idle Current</i>	1.68 A rms (115 V AC), 1.48 A rms (230 V AC), 1.88 A rms (100 V AC)
<i>Maximum Long-Term Continuous Current (&gt;10 sec)</i>	3.76 A rms (115 V AC), 2.28 A rms (230 V AC), 4.32 A rms (100 V AC)
<i>Burst Current (&lt;1 sec)</i>	8.36 A rms (115 V AC), 4.56 A rms (230 V AC), 9.84 A rms (100 V AC)
<b>Dimensions</b>	1RU high 19.00" w x 1.73" h x 13.57" d (482.60 mm x 43.94 mm x 344.78 mm)
<b>Weight</b>	15.5 lbs (6.6 kg)

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