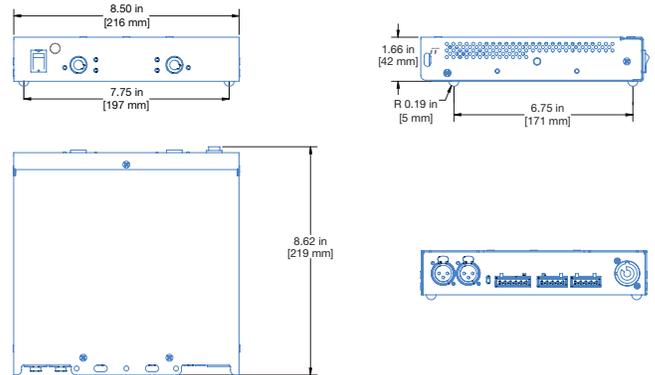# MPS-482HP IntelligentDC™ Power Supply

Meyer Sound

The two-channel MPS-482HP power supply with audio and 48V DC greatly expands the flexibility and cost-effectiveness of Meyer Sound's exclusive IntelligentDC™ remotely self-powered systems. Housed in a rugged, compact half-rack enclosure, the MPS-482HP is ideal for applications requiring a small channel count or the capability for mounting remotely on a wall or ceiling (using the MUB-MPS482 U-bracket). Rack mounting one or two MPS-482HPs in one standard 19 in, 2RU rack space is also possible with the optional RMT-MPS482 Rack Tray.

Designed to power Meyer Sound loudspeakers that feature IntelligentDC technology, the MPS-482HP is particularly advantageous when creating 2-channel systems with compact loudspeakers, such as the MM-4XP, UP-4XP, and UP-4slim. Additionally, it can power up to 6 Ashby-5C or 4 Ashby-8C ceiling loudspeakers and is also ideal for powering surrounds in immersive configurations.

Meyer Sound's externally powered loudspeakers include on-board amplification and signal-processing circuits that store DC power and tolerate voltage drops to accommodate 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-482HP receives two channels of balanced audio from its two XLR 3-pin female input connectors or one 6-pin Phoenix connector and routes the audio, along with DC power, to its two Phoenix 5-pin male output connectors. Front panel user-replaceable fuses protect the MPS-482HP's two channel outputs from short circuits and wiring errors.

The use of composite multi-conductor cables (such as Belden® 1502) allows a single cable to carry both audio and DC power from the MPS-482HP to the loudspeakers. 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. Longer cable lengths are possible for moderate applications that do not drive the loudspeakers to maximum output, as well as for installations with heavier gauge wires.

The MPS-482HP rear panel features a toggle switch that routes the signal from channel 1 to channel 2. This linking capability is convenient for sending the same signal to both outputs without the need for additional cabling.

The unit's front panel has three LEDs per channel output to provide useful feedback on the status of the system. The blue voltage LEDs indicate when voltage is present for each channel output. The green load current LEDs indicate when a loudspeaker is connected to a channel output, and glow brighter as the signal level increases. The red LEDs indicate a blown or open fuse on that channel.

Two optional accessories provide additional flexibility. The RMT-MPS-482 Rack Mount Tray supports mounting of one or two power supplies on a standard EIA 19 in wide 2RU rack. The MUB-MPS-482 U-Bracket enables mounting of one MPS-482HP power supply remotely on a ceiling wall or other surface.

FEATURES AND BENEFITS

- Two channels to power Meyer Sound loudspeakers that require an external IntelligentDC power supply

- Efficiently delivers power to installations requiring smaller channel counts

- Works as a supplemental power supply to the MPS-488HP power supply for applications requiring more than eight and less than sixteen channels

- Enables remote mounting of power supply and routing of DC power and balanced audio to loudspeakers with composite cables

- Fanless operation allows for quiet operation in acoustically sensitive environments

- Enclosure design includes threads to mount power supply in accessories as well as cable routing strain relief tabs

- Front panel LEDs provide system feedback on voltage status, load current levels, and fuse status
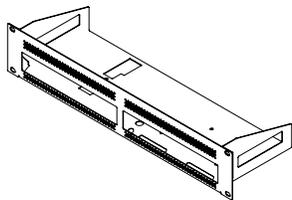
APPLICATIONS

- Conference rooms

- Theaters

- Constellation systems

- Cinema and television post-production facilities

- High-end home theater

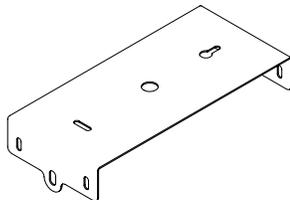- Supplemental power supply for any IntelligentDC loudspeaker system

ACCESSORIES

RMT-MPS-482 Rack Mount Tray: Allows mounting of one or two power supplies on a standard EIA 19 in wide rack. 2 RU tray height facilitates cooling of the MPS-482HP power supply, as the area above the unit is empty. Includes one tray face cover for unused slot.

MUB-MPS-482 U-Bracket: Enables mounting of one MPS-482HP power supply remotely on a ceiling wall or other surface. Ability to hang power supply below bracket or mount power supply on top; bracket above power supply orientation provides space for cable routing; accommodates M6 fasteners.

RMT-MPS-482 Rack Mount Tray   MUB-MPS-482 U-Bracket

PRELIMINARY SPECIFICATIONS

FRONT PANEL	
LEDs per channel	Two blue LEDs to indicate presence of output voltage
	Two green LEDs to indicate load current
	Two red LEDs to indicate blown or open fuse
REAR PANEL	
Audio Input	Two XLR 3-pin female connectors OR one 6-position Phoenix connector (not summing to the XLR inputs)
	One Link Switch. Sends signal from channel 1 input to channel 2
Channel Output	Two Phoenix 5-pin male connectors
Output Wiring	Two pins for DC power, three pins for balanced audio
	Pin 1: 48 V DC -
	Pin 2: 48 V DC +
	Pin 3: Chassis/earth through 220 kΩ, 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies
	Pin 4: Audio signal -
	Pin 5: Audio signal +
Output Voltage	48 V DC per channel (supports NEC Class 2 wiring)
AC POWER	
AC Connector	powerCon 20
Voltage Selection	Automatic
Safety Rated Voltage Range	100–240 V AC; 50–60 Hz; 220 W maximum
PHYSICAL	
Dimensions	One-half rack mount
	W: 8.5 in (216 mm) x H: 1.85 in (47 mm) x D: 8.62 in (219 mm)
Weight	4.4 lb (2 kg)
Mounting	M6 threads on sides and bottom to support mounting; Optional MUB-MPS-482 U bracket for flat surface mounting; Optional RMT-MPS-482 Rack Mount Tray for mounting two MPS-482HPs in a standard 19 in 2 RU rack slot

3K59 OR 3JKB COMMERCIAL AUDIO SYSTEM
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