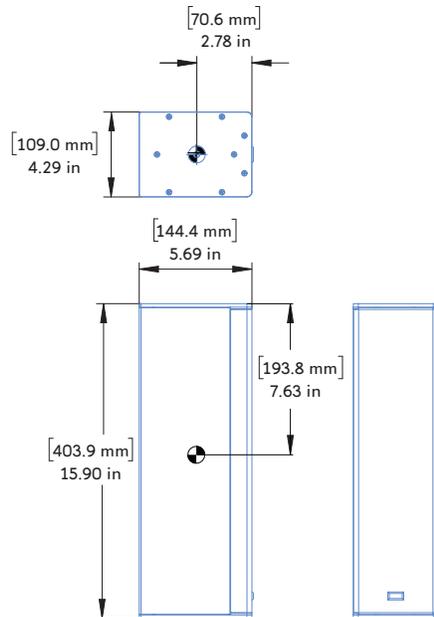


UP-4slim: Compact Installation Loudspeaker



| | |
|--------------------------|--|
| DIMENSIONS | 15.90 in H x 4.29 in W x 5.69 in D (403.9 mm x 109 mm x 144.4 mm) |
| WEIGHT | 14 lb (6.35 kg) |
| ENCLOSURE | Aluminum, black finish slightly textured |
| PROTECTIVE GRILLE | Powder-coated, stamped steel with black mesh screen |
| RIGGING | Top and bottom aluminum plates with M8 threads |

The UP-4slim ultra-compact installation loudspeaker is ideally suited for applications requiring a small, slim, aesthetically pleasing cabinet that delivers high sound pressure levels with low distortion, and uniform coverage. The UP-4slim offers this exceptional audio performance in a compact self-powered package with a remote power supply. As a standalone loudspeaker, the UP-4slim is appropriate for vocal reinforcement, front-fill and under balcony fill applications. The UP-4slim can be optionally paired with a Meyer Sound subwoofer to create a full-range system. One MM-10ACX can also power one UP-4slim.

The UP-4slim is engineered to the same award-winning standards as all Meyer Sound IntelligentDC loudspeakers. Its on-board amplification and sophisticated signal processing provide the flat frequency and phase responses for which Meyer Sound loudspeakers are known. Its drivers are designed and manufactured at the Meyer Sound factory in Berkeley, California.

The UP-4slim's high-frequency section includes a 1-in metal dome tweeter on a constant-directivity, high-frequency horn. The low/mid-frequency section includes two 4-in cone transducers that work in parallel at low frequencies to deliver a combined acoustic output:

One of the drivers rolls off at higher frequencies to

maintain constant directivity in the crossover region.

The UP-4slim has very low distortion, boasts a wide operating frequency range (65 Hz – 18 kHz), and linear peak SPL of 116.5 dB using M-noise³. With a smooth, consistent 100° coverage, fewer loudspeakers can cover a larger area, reducing system cost while maintaining the highest sound quality. The UP-4slim is powered by the MPS-488HP IntelligentDC external power supply. Powering the unit from an external supply eliminates the need for wiring conduits while still preserving the advantages of self-powered systems. The 1 RU unit distributes DC power and balanced audio to up to eight UP-4slim loudspeakers or other Meyer Sound IntelligentDC loudspeakers. The MPS-488HP can also connect to Meyer Sound's RMS remote monitoring system. Composite multi-conductor cables (e.g., Belden® 1502) can deliver both DC power and balanced audio from a single Phoenix™ 5-pin male connector.

UP-4slim Options include weather protection and custom color finishes for installations with specific cosmetic requirements. Mounting options includes MUB-UP-4slim U-bracket, MYA-UP-4slim cradle-style yoke, and MSA 35mm Stand adapter. The top and bottom rigging plates comprise M8 threads. The grille frame is made from powder-coated, stamped steel, and the box-shaped vented enclosure is aluminum.

FEATURES AND BENEFITS

- Extraordinary fidelity and power in a compact, sleek aluminum package
- Low distortion drivers and a metal dome tweeter deliver a smooth high-frequency response
- Wide, symmetrical coverage pattern creates a broad listening area
- Unique crossover design eliminates comb filtering and yields a consistent midrange response
- Exceptional SPL-to-size ratio
- Supports long cable runs with light-gauge cables

APPLICATIONS

- Front-fill and under-balcony fill coverage
- Theatrical sound reinforcement and special effects
- Installed AV systems
- Compact voice reinforcement systems
- Constellation Acoustic Systems

ACCESSORIES

MUB-UP-4slim U-Bracket

U-shaped mounting bracket allows mounting the UP-4slim on a ceiling, wall or floor at any angle.

MYA-UP-4slim Yoke

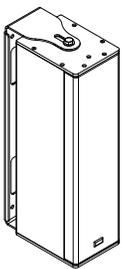
Suspends one UP-4slim from a single point. Can also be used to pole-mount one UP-4slim on top of subwoofer (pole-mount adapter sold separately).

MSA-STAND ADAPTER (35MM, 60 lbs)

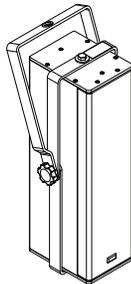
Stand adapter for 1 3/8-in (35 mm) diameter pole.

MPS-488HPp Power Supply

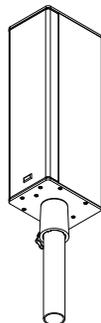
The MPS-488HPp IntelligentDC power supply delivers power and balanced audio to up to eight UP-4slim units (one unit for each output channel).



MUB-UP-4slim Bracket



MYA-UP-4slim Yoke



MSM Stand Adapter



MPS-488HPp Power Supply

SPECIFICATIONS

| ACOUSTICAL | |
|--|--|
| Operating Frequency Range ¹ | 65 Hz – 18 kHz |
| Frequency Response ² | 70 Hz – 18 kHz ±4 dB |
| Linear Peak SPL ³ | 116.5 dB (M-Noise) , 109.5 dB (Pink Noise), 112.5 dB (B-Noise) |
| Phase Response | 102 Hz – 18 kHz ±45° |
| COVERAGE | |
| Horizontal | 100° |
| Vertical | 100° |
| TRANSDUCERS | |
| Low Frequency | Two 4-in cone drivers |
| Crossover ⁴ | 1.5 kHz |
| High Frequency | One 1-in metal dome tweeter |
| CONNECTOR | |
| Connector Type | Phoenix 5-pin male |
| Connector Pinout | Pin 1: DC Power (-) Pin 2: DC Power (+) Pin 3: Audio Shield, Chassis/Earth ⁵ Pin 4: Audio (-) Pin 5: Audio (+) |
| AUDIO INPUT | |
| Type | Differential, electronically balanced |
| Maximum Common Mode Range | ±5 V DC |
| Input Impedance | 10 kΩ differential between positive (+) and negative (-) audio pins |
| DC Blocking | Differential DC blocking up to the maximum common mode voltage |
| CMRR | >50 dB, typically 80 dB (50 Hz – 500 Hz) |
| RF Filter | Common mode: 425 kHz Differential mode: 142 kHz |
| TIM Filter | Integral to signal processing (<80 kHz) |
| Nominal Input Sensitivity ⁶ | -2.0 dBV (0.8 V rms) |
| Minimum Input Level ⁷ | +16 dBV into 600 Ω |
| AMPLIFIER | |
| Type | 3-channel (class D) with crossover |
| Output Power ⁸ | 500 W total |
| THD, IM, TIM | <0.02% |
| Load | 4 Ω each low channel; 8 Ω high channel |
| Cooling | Convection |
| DC VOLTAGE | |
| Voltage Requirement | Meyer Sound MPS-488HP external power supply (required) |
| Safety Agency Rated Operating Range ⁹ | 48 V DC |
| DC CURRENT DRAW ¹⁰ | |
| Idle | 0.23 A average |
| Maximum Long-Term Continuous (>10 s) | 1.00 A average |
| Maximum Instantaneous Peak | 4.50 A peak |

ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, full-range system; the transducers shall consist of two 4-in low-frequency cone drivers and one 1-in high-frequency metal dome tweeter. The loudspeaker system shall incorporate internal processing electronics and a three-channel amplifier, one channel for each driver. Processing functions shall include equalization, phase correction, signal division, and driver protection. The crossover point shall be 1.5 kHz. Amplifier channels shall be class D. Amplifier output power shall be 500 W total for all three channels. Distortion (THD, IM, TIM) shall not exceed 0.02%.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range shall be 65 Hz to 18 kHz; phase response shall be 102 Hz – 18 kHz $\pm 45^\circ$; linear peak SPL shall be 116.5 dB measured with M-noise, free field at 4 meters and referred to 1 meter. The horizontal and vertical coverage shall be 100°.

The loudspeaker shall be equipped with a Phoenix 5-pin male connector (three pins for balanced audio and two

pins for DC power). The audio input shall be electronically balanced with a 10-kOhm impedance and accept a nominal -2.0 dBV (0.8 V rms) input signal.

Power requirements for the loudspeaker shall be a Meyer Sound MPS-488HP IntelligentDC power supply capable of delivering 48 V DC. Maximum long-term continuous current draw for the loudspeaker (< 10 s) shall be 1.0 A average at 48 V.

All components shall be mounted in an acoustically vented box shaped enclosure constructed of aluminum. Top and bottom shall incorporate M8 threads. The front protective grille shall be powder-coated, stamped steel.

Dimensions for the loudspeaker shall be 15.90 in high x 4.29 in wide x 5.69 in deep (403.9 mm x 109 mm x 144.4 mm) without mounting bracket. Weight shall be 14 lb (6.35 kg).

The loudspeaker shall be the Meyer Sound UP-4slim.

NOTES

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics. W/P unit is sealed, range is 100 Hz – 18 kHz.

2. Measured free-field with pink noise at 4 meters, 1/3-octave frequency resolution. W/P unit is sealed, response is 120 Hz – 17.5 kHz ± 4 dB.

3. Linear Peak SPL is measured in free-field at 4 meters referred to 1 meter.

Loudspeaker SPL compression measured with M-Noise at the onset of limiting, 2-hour duration, and 50-degree C ambient temperature is <2 dB

M-noise is a full bandwidth, (10Hz to 22.5kHz) test signal developed by Meyer Sound to better measure the loudspeaker's music performance. It has a constant instantaneous peak level in octave bands, a crest factor that increases with frequency, and a full bandwidth Peak to RMS ratio of 18 dB.

Pink noise is a full bandwidth test signal with Peak to RMS ratio of 12.5 dB

B-noise is a Meyer Sound test signal used to ensure measurements reflect system behavior when reproducing the most common input spectrum, and verify there is still headroom over pink noise

4. At this frequency, the tweeter and top low-frequency driver (closest to the tweeter) produce equal sound pressure levels.

5. Audio shield, chassis/earth through 220 k Ω , 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies.

6. Continuous average is typically the onset of limiting for noise and music.

7. Minimum input level to produce the maximum peak SPL over the operating bandwidth of the loudspeaker.

8. Rating based on the maximum rms voltage the amplifier can produce from an unclipped burst sine wave into the nominal load impedance.

9. Tolerates voltage drops up to 30% due to long cable runs. Normal operating conditions with recommended cable gauge and length assures peak SPL remains within 2 dB of max SPL specification.

10. Current draw measured at 48 V DC.