

PSM-2 *Self-Powered Stage Monitor*

FEATURES



Integrated control electronics and amplifiers



TruPower™ Limiting (TPL)



Intelligent AC™ System



Compatible with the Remote Monitoring System™ (RMS)



High-power/medium Q



Compact for efficient truck packing



Fast set-up and easy re-patch



Superior engineering for the art and science of sound.



The Meyer Sound PSM-2 is a self powered loudspeaker designed for professional stage monitoring applications. It is a high power (139 dB max SPL) system with a medium Q horn, providing even coverage in both the horizontal and vertical planes. The PSM-2 has a phase corrected frequency response of 50 Hz to 18 kHz. The cabinet can be tilted at 35°, 55°, or 90° from the stage to permit optimal placement relative to the listener, and has a very low profile (only 1" higher than the UM-1, when in the 35° placement).

The PSM-2 amplifier, controller, power supply, and cooling subsystems are integrated into a lightweight

module, service accessible at the back of the enclosure. Self-contained electronics eliminate the need for accessory equipment racks. The overall speaker is compact for efficient transport and setup.

The PSM-2 incorporates the Intelligent AC™ system, which performs automatic voltage selection, EMI filtering, soft current turn-on, and surge suppression. Simply connect a signal source and plug into power anywhere worldwide, and the unit is fully operational.

The amplifier unit is equipped with TruPower™ Limiter technology, which maximizes speaker protection reliability and component life.

This breakthrough in speaker control also results in higher SPL at all frequencies, and increased headroom. Long term power compression, typically 3-6 dB in conventional systems, is less than 1 dB. Maximum SPL capability remains constant even during operation at high levels for extended periods.

PSM-2 performance can be supervised using the Remote Monitoring System™ (RMS). This enables users at a computer terminal to monitor such parameters as limiting activity, power output, voltage, temperature, fan speed, and driver status.

PSM-2 SPECIFICATIONS

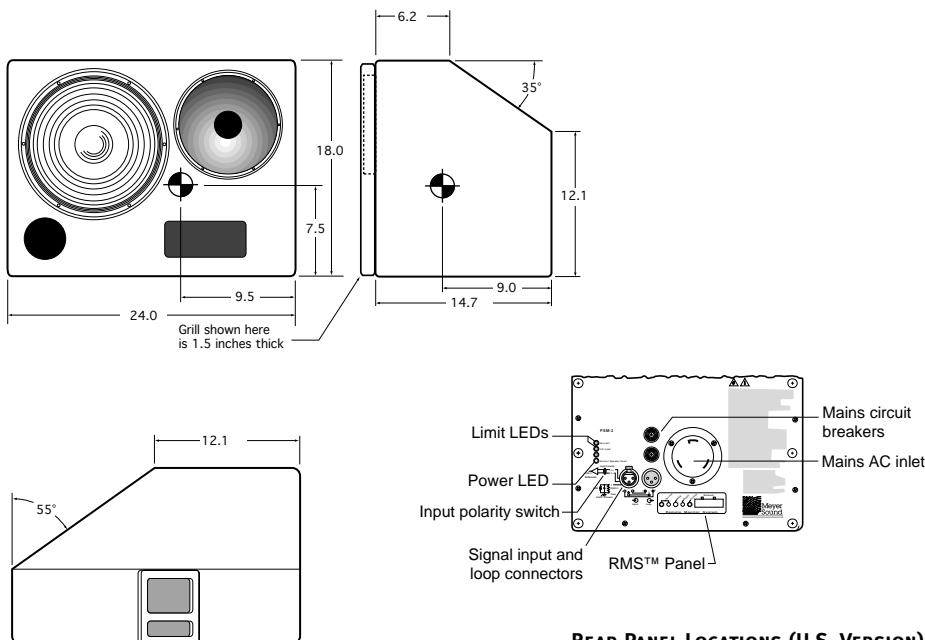
ACOUSTICAL (EACH LOUDSPEAKER)	Frequency Response¹ ±4 dB from 50 Hz to 18 kHz Phase Response¹ ±90° from 200 Hz to 16 kHz Maximum SPL¹ 139 dB peak@1 meter Dynamic Range >110 dB
COVERAGE	(-6 dB points) 50°H; 50°V (-10 dB points) 70°H; 70°V
TRANSDUCERS	Low Frequency 12" diameter MS-12 cone High Frequency 4" diaphragm MS-2001 CQ horn driver
AUDIO INPUT	Type 10kΩ impedance, electronically balanced Connector XLR (A-3) male and female Nominal Input Level +4 dBu (1.23 Vrms)
AMPLIFIERS	Type Complementary power MOSFET output stages (audio class AB/H) Burst capability² 1240 Watts (620 Watts/channel) THD, IM, TIM < .02 %
AC POWER	Connector 250V NEMA L6-20P (twistlock) inlet or IEC 309 male inlet ³ Automatic voltage selection 95-125 VAC and 208-235 VAC; 50/60 Hz ⁴ Operational Voltage Range Turn on: 85 VAC; Turn off: 134 VAC; 50/60 Hz Turn on: 165 VAC; Turn off: 264 VAC; 50/60 Hz Max Continuous RMS Current (>10 sec) @115 V: 8A @230V: 4A @100V: 10A Burst RMS Current (<1 sec) @115 V: 15A @230V: 8A @100V: 18A Max Peak Current During Burst @115 V: 22Apk @230V: 11Apk @100V: 25Apk Soft Current Turn-on Inrush current <12A@115V
PHYSICAL	Dimensions 24" W x 18" H x 14 5/8" D Weight 90 lbs (41 kg) / shipping: 103 lbs (47 kg) Enclosure All birch plywood Finish Black textured Protective Grill Perforated steel grill, charcoal-grey foam

NOTES

1. Subject to half space loading, measured with one-third octave frequency resolution in fixed ISO bands.
2. Nominal 8Ω resistive load, pink noise, 100V peak.
3. Other connectors available.
4. The unit is rated at 95-125 VAC and 208-235 VAC, 50/60 Hz, to satisfy EC standards for -10% to 6% AC line voltage.

PHYSICAL DIMENSIONS

ALL UNITS IN INCHES



REAR PANEL LOCATIONS (U.S. VERSION)

Meyer Sound Laboratories has devoted itself to designing, manufacturing, and refining components that deliver superb sonic reproduction. Every part of every component is designed and built to exacting specifications and undergoes rigorous, comprehensive testing in the laboratories.

Research remains an integral, driving force behind all production.

Meyer strives for sound quality that is predictable and neutral over an extended lifetime and across an extended range.



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