

# MSL-4 *Self-Powered Reinforcement Loudspeaker*

## FEATURES



Integrated control electronics and amplifiers



TruPower™ Limiting (TPL)



Intelligent AC™ System



Compatible with the Remote Monitoring System™ (RMS)



Long-throw



High-Q



Ultra-low distortion

*Superior engineering for the art and science of sound.*



**PATENTED**

The MSL-4 is an arrayable, high-Q long-throw reinforcement loudspeaker. It operates with a very flat frequency response all the way from 18kHz down to an impressive 65Hz. To get an even lower range, the unit works well with mid-bass loudspeakers and subwoofers.

The MSL-4 is unique; it is the first high-power, high-performance, self-contained reinforcement speaker. By integrating the controllers, amplifiers, and speaker components into one unit, sound designers are no longer required to waste time fussing with different amplifier gains, rack wiring, loudspeaker

protection, or other problems that can compromise a system's performance. All that is required is to hookup AC power and run a good quality signal source into it. What could be simpler?

The MSL-4 literally does all the work. The power system utilizes the Intelligent AC system, which provides for automatic voltage selection, EMI filtering, soft current turn-on, surge suppression, and dual circuit breakers. It can even provide uninterrupted operation under limited brownout conditions.

The forced-air cooling system directs air over the

heatsink, not the electronics. This allows fewer contaminants into the amplifier, increasing its reliability.

The MSL-4 is highly arrayable, with a very precise coverage pattern: 40° horizontal by 35° vertical. The unit can be tight-packed to get high power over long distances, or splayed to increase the horizontal coverage.

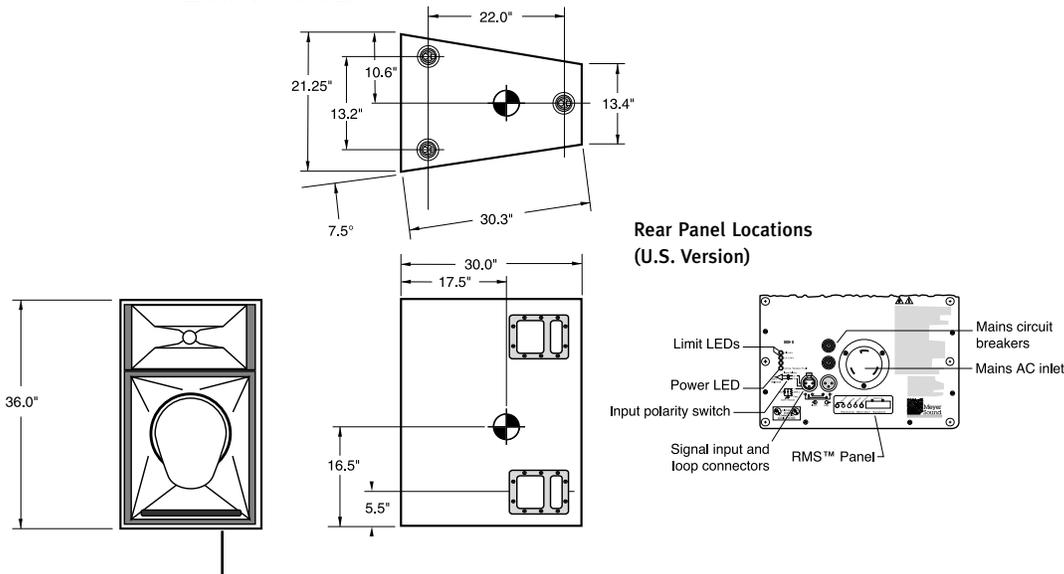
# MSL-4 SPECIFICATIONS

<b>ACOUSTICAL<sup>1</sup></b> EACH LOUDSPEAKER)	<b>Frequency Response<sup>1</sup></b> ±4 dB from 65 Hz to 18 kHz -6 dB at 60 Hz and 20 kHz <b>Phase Response<sup>1</sup></b> ±30° from 450 Hz to 10 kHz <b>Maximum SPL<sup>1</sup></b> 140 dB@1 meter <b>Dynamic Range</b> >110 dB
<b>COVERAGE</b>	(-6 dB points) 40° H ; 35° V
<b>CROSSOVER</b>	800 Hz
<b>TRANSDUCERS</b>	<b>Low Frequency</b> 12" diameter MS-12 cone (3" voice coil) <b>High Frequency</b> 2" throat (4" diaphragm) MS-2001A compression driver
<b>AUDIO INPUT</b>	<b>Type</b> 10kΩ impedance, electronically balanced <b>Connector</b> XLR (A-3) male and female <b>Nominal Input Level</b> +4 dBu
<b>AMPLIFIERS</b>	<b>Type</b> Complementary power MOSFET output stages (audio class AB/H) <b>Burst capability<sup>2</sup></b> 1240 watts (620 watts/channel) <b>THD, IM, TIM</b> < .02 %
<b>AC POWER</b>	<b>Connector</b> 250V NEMA L6-20P (twistlock) inlet or IEC 309 male inlet <sup>3</sup> <b>Automatic voltage selection</b> 95-125 VAC and 208-235 VAC; 50/60 Hz <sup>4</sup> <b>Operational voltage range</b> Turn on: 85 VAC; Turn off: 134 VAC; 50/60 Hz Turn on: 165 VAC; Turn off: 264 VAC; 50/60 Hz <b>Max.Continuous RMS Current (&gt;10 sec)</b> @115 V: 8A @230V: 4A @100V: 10A <b>Burst RMS Current (&lt;1 sec)</b> @115 V: 15A @230V: 8A @100V: 18A <b>Max Peak Current During Burst</b> @115 V: 22Apk @230V: 11Apk @100V: 25Apk <b>Soft Current Turn-on</b> Inrush current <12A@115V
<b>PHYSICAL</b>	<b>Dimensions</b> 21 1/4" W x 36" H x 30" D <b>Weight</b> 180 lbs (82 kg)/Shipping: 213 lbs. (97kg) <b>Enclosure</b> Multi-ply hardwood <b>Finish</b> Black textured <b>Protective Grill</b> Hex perforated metal screen, foam covering <b>Rigging</b> Aircraft pan fittings, three on both top and bottom. Working load for each fitting is 600 lbs, which is 1/5 the cabinet breaking strength (with straight tensile pull).

- 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. For European installations, an IEC 309 connector (16A) can be installed.
  4. The unit is rated at 88-125V and 182-235V, 50/60 Hz, to satisfy EC standards for -10% to 6% AC line voltage.

## PHYSICAL DIMENSIONS

ALL UNITS IN INCHES



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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