# MTS-4A *Self-Powered Reinforcement Loudspeaker*

## FEATURES

- Integrated control electronics and amplifiers
- TruPower™ Limiting (TPL)
- Intelligent AC™ System
- Compatible with the RMS™ (Remote Monitoring System)
- Exceptional low-frequency response
- High Peak SPL Capability
- Wide audio range in one unit
- 4-way active, corrected x-over

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

Meyer Sound

PATENTED

The self-powered, four-way MTS-4A is a fully integrated loudspeaker system uniquely capable of producing extremely high sound levels across the full audio range, lower fundamentals and sub-harmonics included. Powerful yet relatively compact (17 cu. ft.), the MTS-4A offers a single cabinet solution for many applications, often eliminating the need for separate subwoofers and associated electronics.

The MTS-4A contains four drivers, four amplifier channels (2480W total peak output) and a four-way, phase corrected active crossover network. Exceptionally rugged MS8xx Series cone drivers handle low- and mid-frequency reproduction, with each driver placed in its own separate vented chamber for optimum response and higher combined output levels. The control electronics are optimized to allow the MS812, 815 and 818 drivers to operate together over the critical 60Hz to 100Hz frequency band. The combined driver output signals are kept fully in phase for increased acoustic gain, resulting in more powerful bass and drum reproduction, higher system headroom and extended driver life. The 4-inch diaphragm MS-2010 HF compression driver extends high frequency response to 18kHz, with phase response flat to 12kHz.

The MTS-4A power supply utilizes Meyer Sound's proprietary Intelligent AC™ system, which provides automatic voltage selection, EMI filtering, soft current turn-on, surge suppression and dual circuit breakers. The dual-fan cooling system forces air over the heatsinks only, not over the electronics, avoiding residue buildup that can shorten component life.

All four amplifier channels operate class AB/H and employ complementary power MOSFET output stages. For maximum driver protection and extended component life, the amplifier modules incorporate TruPower™ limiter technology. TruPower also allows higher SPL at all frequencies, increasing available headroom and holding long-term power compression to less than 1dB (typically 3 - 6dB in conventional systems).

The MTS-4A is compatible with the RMS™ (Remote Monitoring System), a PC-based system for monitoring key performance parameters as well as controlling loudspeaker mute and solo functions.

A rear access panel facilitates easy servicing of MTS-4A electronics. The entire amplifier/processing module can be removed and replaced in the field within a few minutes.

# MTS-4A SPECIFICATIONS

| | | |
|---|---|---|
| **ACOUSTICAL[1]** (EACH LOUDSPEAKER) | **Operating Frequency Range[2]** | 26 Hz - 18 kHz ± 6 dB |
| | **Free Field** | 32 Hz - 16 kHz ± 4 dB |
| | **Half-Space** | 30 Hz - 16 kHz ± 4dB |
| | **Phase Response** | ± 70° 90 Hz - 17.2 kHz |
| | **Maximum Peak SPL[3]** | 140 dB |
| | **Signal to Noise Ratio** | >100 dB (A weighted noisefloor to max SPL) |
| **COVERAGE** | | -6 dB at 70° H x 60° V |
| **TRANSDUCERS** | **Sub Frequency** | 18-inch cone driver |
| | **Low Frequency** | 15-inch cone driver |
| | **Mid Frequency** | 12-inch cone driver |
| | **High Frequency** | 2-inch throat (4-inch diaphragm) compression driver |
| **AUDIO INPUT** | **Type** | 10k impedance, electronically balanced |
| | **Connector** | XLR (A-3) male and female |
| | **Nominal Input Level** | +4 dBu |
| **AMPLIFIERS** | **Type** | Complementary power MOSFET output stages (audio class AB/H) |
| | **Burst capability** | 2480 watts (620 Wrms/channel x 4) |
| | **THD, IM, TIM** | < .02 % |
| **AC POWER** | **Connector** | 250V NEMA L6-20P (twistlock) inlet or IEC 309 male inlet or Multipin VEAM option |
| | **Automatic voltage selection** | 95-125 VAC and 208-235 VAC; 50 Hz / 60 Hz[4] |
| | **Operational Voltage Range** | Turn on: 85 VAC; Turn off 134 VAC; 50/60 Hz<br>Turn on: 165 VAC; Turn off 264 VAC; 50/60 Hz |
| | **Max Continuous RMS Current (>10 sec)** | @115 V: 14 A @230 V: 7 A @100 V: 16 A |
| | **Burst RMS Current (< 1 s)** | @115 V: 26 A @230 V: 13 A @100 V: 30 A |
| | **Max Peak Current During Burst** | @115 V: 36 Apk @230 V: 18 Apk @100 V: 42 Apk |
| | **Soft Start Turn-on** | Inrush current < 12A @ 115V |
| **PHYSICAL** | **Dimensions** | Height: 56.75" (1441 mm); Width: 21.26" (539 mm); Depth: 30" (762 mm) |
| | **Weight** | 280 lbs (127 kg) |
| | **Enclosure** | Multi-ply hardwood |
| | **Finish** | Black textured |
| | **Protective Grill** | Perforated metal grill |
| | **Rigging** | Aircraft pan fittings (3 on top, 2 on bottom). Working load for each fitting is 600 lbs, which is 1/5 the cabinet breaking strength (with straight tensile pull). |

**NOTES**

1. Measurements are taken at 4 m on-axis, 1/3 octave, unless otherwise stated.
2. Response depends on loading conditions and room acoustics.
3. 1m, with pink noise or music, 1/2 space.

**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.**

**Meyer Sound reserves the right to alter any specification without notice.**

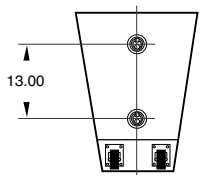
**Please visit our web site at www.meyersound.com for up-to-date information.**

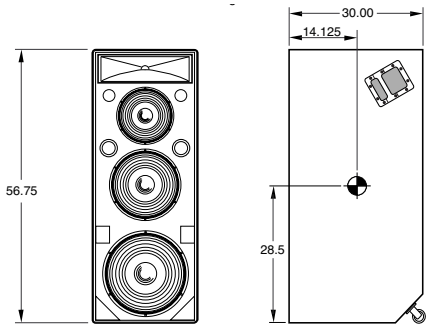
**MTS-4A - 04.029.010.02**

# PHYSICAL DIMENSIONS

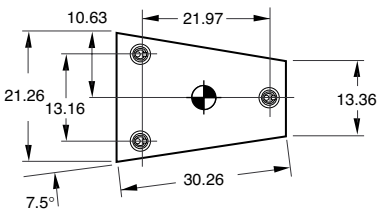
ALL UNITS IN INCHES

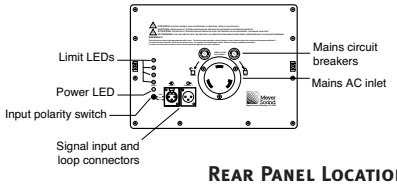
(bottom view)




(top view)




**REAR PANEL LOCATIONS (U.S. VERSION)**

LISTED 3K59 COMMERCIAL AUDIO SYSTEM

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