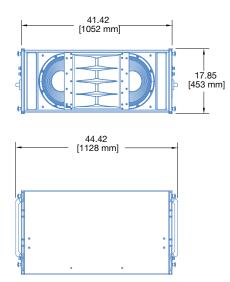
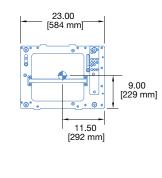
DATASHEET LINE ARRAY

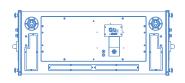
LEO-M™ Advanced Linear Array Loudspeaker











Sonic linearity at any output level defines the LEO-M™ advanced linear array loudspeaker. Conceived for long-throw applications, with exceptional headroom, extremely low distortion, and optimized rigging options, LEO-M forms the nucleus of Meyer Sound's next-generation LEO® array systems. Pair LEO arrays with Meyer Sound's 1100-LFC low-frequency control element for bass reproduction, and the LYON™ linear line array loudspeaker for downfill. Drive entire systems with Meyer Sound's Galileo® GALAXY Network Platform, which provides 24 bit, 96 kHz audio, matrix routing, alignment, and processing for array components.

To guarantee optimum system performance, design LEO array systems with Meyer Sound's MAPP™ System Design Tool. This intuitive, cross-platform application accurately predicts coverage patterns, frequency and impulse responses, and linear peak SPL for LEO array systems, ensuring that systems deliver the required SPL and ideal coverage for the intended audience areas.

LEO-M's high-frequency section comprises two proprietary compression drivers coupled to a constant-directivity horn through a patented REM® manifold. The manifold's smooth radiating characteristics afford tight vertical coverage. The low-frequency section includes two long-excursion cone drivers, also proprietary, capable of withstanding high continuous output levels. Precise phase and magnitude alignment between low- and high-frequency drivers yields consistent and well-behaved system responses.

The unit's power amplifier operates at nominal voltages from

208-235 V AC at 50-60 Hz. TruPower® limiting ensures maximum driver protection, minimizing power compression while yielding high constant output under high continuous and peak power conditions. A single field-replaceable module located on the rear of the cabinet contains the amplifier, control electronics, and power supply.

Meyer Sound's RMS™ remote monitoring system comes standard with all LEO-M loudspeakers and provides comprehensive monitoring of system parameters on a Mac® or Windows®-based computer. Convenient XLR 5-pin connectors allow the use of composite cables carrying both RMS and balanced audio.

LEO-M offers intuitive rigging with captive GuideALinks™ that users can set to the desired splay angles while cabinets rest in caster frames. The MTG-LEO-M top grid flies arrays of up to 22 LEO-Ms at a 5:1 safety factor (with some restrictions). Fly LYONs below LEO-M arrays for downfill with available optional transition frames. Securely transport stacks of up to four LEO-Ms with the optional MCF-LEO-M caster frame; Protect the cabinets during transport with optional durable nylon covers that accommodate stacks of two, three, or four units.

Meyer Sound builds the vented LEO-M cabinet with premium multi-ply birch and coats it with a slightly textured black finish. A powder-coated, hex-stamped steel grille with acoustical black mesh protects the unit's drivers. The weather-protected cabinet and included collapsible rain hood that shields user panel connectors from water intrusion accommodate a variety of applications.

FEATURES AND BENEFITS

- Optimized line arrays with controlled directivity for even coverage and consistent responses over long throws
- High peak power output with exceptional linearity and transient reproduction at extreme levels
- · Self-powered design for simplified setup and increased reliability
- Optimized rigging that allows splay angles to be set while stacks rest in caster frames
- Seamless integration with LYON line array loudspeakers, and the 1100-LFC and VLFC low frequency control elements

APPLICATIONS

- Stadiums
- Arenas
- Touring sound reinforcement
- Large-scale public events

ACCESSORIES AND ASSOCIATED PRODUCTS

MTG-LEO-M Top Grid: With some restrictions, flies up to 22 LEO-Ms at a 5:1 safety factor and BGV C1; accommodates a variety of pickup configurations with six pickup points; includes attachment points to accommodate brackets and adapters for lasers and inclinometers. Always use MAPP to verify rigging load ratings. Optional MTG-LEO Groundstack Grid Link Kit available to enable using the grid as a base by flipping it upside-down (4 links in kit).

MVP Motor Vee Plate: Attaches to MTG-LEO-M (and all other LEO family grids) and fine tunes horizontal aim of LEO arrays.

RPP-LEO-M Rear Pull-up Plate: Helps assemble large arrays with wide splay angles by providing pull-up (with a motor) to expand the array's splay angles during installation, so that it is easier to insert the blue locking pins.

MTF-LEO-M/LYON Transition Frame: With some restrictions, flies up to 9 LYONs at a 5:1 safety factor and BGV C1 below LEO-M arrays for downfill; includes rear attachment points for pull-back.

PBF-LEO-M Pull-back Frame: Attaches to the bottom cabinet of LEO-M arrays and provides pull-back for extreme array downtilt.

MDM-5000 Distribution Module: Offers convenient power distribution and flexible routing of audio, AC power, and RMS to loudspeaker arrays.

MCF-LEO-M Caster Frame: Safely transports up to four LEO-M cabinets, making it easy to assemble and disassemble arrays in blocks. Durable nylon covers for stacks of 2, 3 and 4 units are also available to ensure the LEO-M is completely road ready.

Galileo GALAXY Network Platform: The Galileo GALAXY Network Platform provides state-of-the-art audio control technology for loudspeaker systems with multiple zones. With immaculate sonic performance, it provides a powerful tool set for corrective room equalization and creative fine-tuning for a full range of applications.

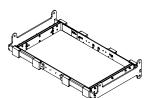
GEB-LEO Grid Extender Bar: Attaches to the MTG-LEO Top Grid and by extending the pick-up points, it provides a few extra degrees of downtilt or uptilt without requiring extra motors or rigging points when rigging LEO-M arrays. For more severe downtilt, the pull-back frame is the best solution.



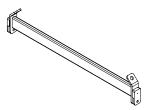
MTG-LEO-M Top Grid and optional Groundstack Grid Link Kit



MVP Motor Vee Plate (top) RPP-LEO-M Rear Pull-up Plate



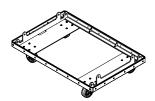
MTF-LEO-M/LYON Transition Frame



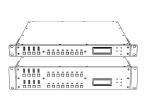
PBF-LEO-M Pull-back Frame



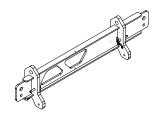
MDM-5000 Power and Signal Distribution Module



MCF-LEO-M Caster Frame



Galileo GALAXY Network Platform



GEB-LEO Grid Extender Bar

SPECIFICATIONS

Coperating Presquency Range Series - 16 street 148.5 dt with 20 dt creet factor (Minoles), 142.5 dt (Pink notice), 144.5		
Please Response Please Response 149.5 dB with 20 dB creat factor (M-noise), 142.5 dB (Pink noise), 144 dB (B-noise)	ACOUSTICAL ¹	
COUPERAGE The Couper of t	Operating Frequency Range ²	55 Hz – 16 kHz
COVERAGE Horizontal Coverage Vertical Coverage Vertical Coverage Vertical Coverage Vertical Coverage Vertical Coverage Varies, depending on the array length and configuration TRANSDUCERS Low Frequency Two 15-inch long-excursion cone drivers; 4.0 nominal impedance Time of-inch dispringing compression drivers coupled to a constant-directifyly from through a patented FREM munifold; 12.0 nominal impedance AUDIO INPUT Differential, electronically belanced Maximum Common Mode Range Syp Differential, electronically belanced Audio input impedance Connector (Connector Connector) Input impedance Ph 1: Chassie/earth through 1 ki0, 1000 pR, 15 V clamped network to provide virtual ground lift at audio inequencies Ph 2: Signal + Ph 3: Signal + Ph 4: RNS Ph 5:	Phase Response	375 Hz – 14 kHz ±30°
TRANSDUCERS Transbucers Low Frequency AUDIO INPUT Type Type Type Type Type Type Type T	Linear Peak SPL ³	149.5 dB with 20 dB crest factor (M-noise), 142.5 dB (Pink noise), 144 dB (B-noise)
TRANSDUCERS To 15-inch long-assuraion cone drivers; 4 Ω nominal impedance had not fire the frequency field manifold; 1 to 2 Ω nominal impedance had not fire the frequency field manifold; 1 to 2 Ω nominal impedance had not fire the frequency field manifold; 1 to 2 Ω nominal impedance had not fire the fire t	COVERAGE	
TRANSDUCERS Low Frequency Two 15-inch long-excursion cone drivers; 4 Ω nominal impedance Risk frequency Two 4-inch disphragm compression drivers coupled to a constant-directivity horn through a patential Risk manifold; 12 Ω nominal impedance Two 4-inch disphragm compression drivers coupled to a constant-directivity horn through a patential Risk manifold; 12 Ω nominal impedance Differential, electronically belanced Maximum Common Mode Range 118 V DC, clamped to earth for voltage transient protection Connectors (X.R.S-pin female input with male loop output Input Impedance 10 kΩ differential between pins 2 and 3 Pin 1: Chassis/carth through 1 kΩ, 1000 plf; 15 V clamped network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 4: RMS Pin 5: RM	Horizontal Coverage	75°
Low Frequency Two 15-inch long-excursion cone drivers; 4 Ω nominal impedance Woo 4-inch diaphragm compression drivers outpled to a constant-directivity horn through a patented REM manifold; 12 Ω nominal impedance REM manifold; 12 Ω nominal imp	Vertical Coverage	Varies, depending on the array length and configuration
Two 4-inch disphragm compression drivers coupled to a constant-directivity horn through a patiented REM manifold: 12 Ω nominal impedence Naximum Common Mode Range	TRANSDUCERS	
AUDIO INPUT Type Maximum Common Mode Range 15 V DC, clamped to earth for voltage transient protection XLR 5-pin female input with male loop output Input impedance Pin 1. Chassife with through 1 kΩ, 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies pin 2: Signal + Pin 3. Signal - Pin 4. HMS Pin 5. HMS Case: Earth ground and chassis AMPLIFIERS AMPLIFIERS AMPLIFIERS AC POWER Connector Total Output Power Connector Total Output Power Connector Automatic Voltage Renge 208-235 V AC, 50-60 Hz Safety Rated Voltage Range (de Sun Vac) Max Long-Term Continuous Current (> 10 soc) All Current (< 1 see) And Sun Vac) Max Long-Term Continuous Current (> 10 soc) And Sun Vac) And Su	Low Frequency	Two 15-inch long-excursion cone drivers; 4 Ω nominal impedance
Differential, electronically balanced 215 V DC, clamped to earth for voltage transient protection	High Frequency	
Maximum Common Mode Range Connectors XLR 5-pin female input with male loop output Input Impedance Input Impedance Pin 1: Chassis/earth through 1 kΩ, 1000 pF. 15 V clamped network to provide virtual ground lift at audio frequencies pun 2: Signal + Pin 3: Signal - Pin 4: RMS Pin 5: RMS Case: Earth ground and chassis Case: Earth ground	AUDIO INPUT	
Connectors XLR 5-pin fenale input with male loop output Input Impedance Imput Impu	Туре	Differential, electronically balanced
Input Impediance Input Impediance Input Impediance Input Impediance Input Impediance Incompanies Prints Chassis/earth through 1 kΩ, 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies Prints Signal - Prints	Maximum Common Mode Range	±15 V DC, clamped to earth for voltage transient protection
Pin 1: Chassis/earth through 1 kΩ, 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal - Pin 4: RMS Pin 5: RMS Case: Earth ground and chassis Nominal Input Sensitivity O dBV (1 V rms) continuous is typically the onset of limiting for noise and music Audio source must be capable of producing of +20 dBV (10 V rms) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker AMPLIFIERS Typ 3-channel complementary MOSFET output stages (class AB/H bridged) Total Output Power 9900 W Peak Cooling Two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector PowerCON 32 Automatic Voltage Selection 208–235 V AC, 50–60 Hz Safety Rated Voltage Range 208–235 V AC, 50–60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current (-10 sec) 6.0 A rms (230 V AC) Burst Current (-11 sec) 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 244 Peak (230 V AC)	Connectors	XLR 5-pin female input with male loop output
audio frequencies Pin 2: Signal + Pin 3: Signal - Pin 4: RMS Pin 5: RMS Case: Earth ground and chassis Nominal Input Sensitivity 0 dBV (1 V rms) continuous is typically the onset of limiting for noise and music AMPLIFIERS Type 3-channel complementary MOSFET output stages (class AB/H bridged) Total Output Power 9900 W Peak ThD, IM, TIM < 0.02% Towoultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208-235 V AC, 50-60 Hz Safety Rated Voltage Range 208-235 V AC, 50-60 Hz Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW (die Current (-10 sec) 6.0 A rms (230 V AC) Max Long-Term Continuous Current (-10 sec) 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Input Impedance	10 kΩ differential between pins 2 and 3
Wiring Pin 3: Signal - Pin 4: RMS Pin 4: RMS Pin 5: RMS Case: Earth ground and chassis Nominal Input Sensitivity D d BV (1 V rms) continuous is typically the onset of limiting for noise and music Audio source must be capable of producing of +20 dBV (10 V rms) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker Type 3-channel complementary MOSFET output stages (class AB/H bridged) 3-channel complementary MOSFET output stages (class AB/H bridged) 3-channel complementary MOSFET output stages (class AB/H bridged) 4-channel complementary MOSFET output stages (class AB/H bridged) 3-channel c		audio frequencies
Pin 4: RMS Pin 5: RMS Pin 5: RMS Pin 5: RMS Case: Earth ground and chassis Nominal Input Sensitivity 0 dBV (1 V rms) continuous is typically the onset of limiting for noise and music Input Level Adults osurce must be capable of producing of +20 dBV (10 V rms) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker AMPLIFIERS Type 3-channel complementary MOSFET output stages (class AB/H bridged) 9900 W Peak 7 total Output Power 4 cooling 7 two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208-235 V AC, 50-60 Hz Safety Rated Voltage Range 208-235 V AC, 50-60 Hz Turn-on and Turn-off Points 100-001 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current (<10 sec) 8.0 A rms (230 V AC) Burst Current (<1 sec)* 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current (<2 sec)* 42 A peak (230 V AC)		
Pin 5: RMS Case: Earth ground and chassis Nominal Input Sensitivity 0 dBV (1 V rms) continuous is typically the onset of limiting for noise and music Input Level Audio source must be capable of producing of +20 dBV (10 V rms) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker AMPLIFIERS Type 3-channel complementary MOSFET output stages (class AB/H bridged) Total Output Power 9990 W Peak ThD, IM, TIM < 0.02% Two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208-235 V AC, 50-60 Hz Safety Rated Voltage Range 208-235 V AC, 50-60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW (Idle Current (<1 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Wiring	
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Audio source must be capable of producing of +20 dBV (10 V rms) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker AMPLIFIERS Type 3-channel complementary MOSFET output stages (class AB/H bridged) 9900 W Peak Total Output Power! 9900 W Peak Cooling Two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208-235 V AC, 50-60 Hz Safety Rated Voltage Range 208-235 V AC, 50-60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current (<10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 244 Peak (230 V AC)		Case: Earth ground and chassis
AMPLIFIERS Type 3-channel complementary MOSFET output stages (class AB/H bridged) Total Output Power 9900 W Peak Cooling Two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208–235 V AC, 50–60 Hz Safety Rated Voltage Range 208–235 V AC, 50–60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) 8.0 A rms (230 V AC) Burst Current (<1 sec) 9.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Nominal Input Sensitivity	0 dBV (1 V rms) continuous is typically the onset of limiting for noise and music
Type 3-channel complementary MOSFET output stages (class AB/H bridged) Total Output Power ⁴ 9900 W Peak THD, IM, TIM < 0.02% Cooling Two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208-235 V AC, 50-60 Hz Safety Rated Voltage Range 208-235 V AC, 50-60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current (>1 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 8.0 A rms (230 V AC) Burst Current (<1 sec) ⁵ 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Input Level	
Total Output Power 9900 W Peak THD, IM, TIM < 0.02% Cooling Two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208-235 V AC, 50-60 Hz Safety Rated Voltage Range 208-235 V AC, 50-60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	AMPLIFIERS	
THD, IM, TIM	Туре	3-channel complementary MOSFET output stages (class AB/H bridged)
Cooling Two ultra high-speed primary fans, two ultra high-speed reserve fans AC POWER Connector powerCON 32 Automatic Voltage Selection 208–235 V AC, 50–60 Hz Safety Rated Voltage Range 208–235 V AC, 50–60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) ⁶ 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Total Output Power ⁴	9900 W Peak
AC POWER Connector powerCON 32 Automatic Voltage Selection 208–235 V AC, 50–60 Hz Safety Rated Voltage Range 208–235 V AC, 50–60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) ⁵ 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	THD, IM, TIM	< 0.02%
Connector powerCON 32 Automatic Voltage Selection 208–235 V AC, 50–60 Hz Safety Rated Voltage Range 208–235 V AC, 50–60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) ⁵ 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Cooling	Two ultra high-speed primary fans, two ultra high-speed reserve fans
Automatic Voltage Selection 208–235 V AC, 50–60 Hz Safety Rated Voltage Range 208–235 V AC, 50–60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	AC POWER	
Safety Rated Voltage Range 208–235 V AC, 50–60 Hz Turn-on and Turn-off Points Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) ⁵ 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Connector	powerCON 32
Turn-on: 165 V AC; Turn-off: 264 V AC CURRENT DRAW Idle Current	Automatic Voltage Selection	208-235 V AC, 50-60 Hz
CURRENT DRAW Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Safety Rated Voltage Range	208–235 V AC, 50–60 Hz
Idle Current 0.6 A rms (230 V AC) Max Long-Term Continuous Current (>10 sec) 6.0 A rms (230 V AC) Burst Current (<1 sec) ⁵ 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Turn-on and Turn-off Points	Turn-on: 165 V AC; Turn-off: 264 V AC
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Burst Current (<1 sec) ⁵ 8.0 A rms (230 V AC) Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Idle Current	0.6 A rms (230 V AC)
Maximum Instantaneous Peak Current 24 A peak (230 V AC)	Max Long-Term Continuous Current (>10 sec)	6.0 A rms (230 V AC)
	Burst Current (<1 sec) ⁶	8.0 A rms (230 V AC)
Inrush Current < 15 A peak	Maximum Instantaneous Peak Current	24 A peak (230 V AC)
	Inrush Current	< 15 A peak

SPECIFICATIONS, CONT'D.

RMS NETWORK	
	Equipped with two-conductor, twisted-pair network; reports all amplifier operating parameters to host computers
PHYSICAL	
Dimensions	W: 44.42 in (1128 mm) x H: 17.85 in (453 mm) x D: 23.00 in (584 mm)
Weight	265 lb (120.2 kg)
Enclosure	Premium multi-ply birch, slightly textured black finish
Protective Grille	Powder coated, hex-stamped steel with acoustical black mesh
Rigging	End frames with captive GuideALinks secured with 0.5-inch x 1.125-inch quick-release pins that allow 0.5°-5° splay angles; detachable handles

NOTES

- 1. Loudspeaker system predictions for coverage and SPL are available in Meyer Sound's MAPP System Design Tool.
- 2. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
- 3. **Linear Peak SPL** is measured in free-field at 4 m referred to 1 m. 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–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 to verify there is still headroom over pink noise.

- 4. Peak power based on the maximum unclipped peak voltage the amplifier will produce into the nominal load impedance.
- 5. AC power cabling must be of sufficient gauge so that under burst current rms conditions, cable transmission losses do not cause the loudspeaker's voltage to drop below the specified operating range.

ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall be a self-powered, linear, low-distortion, line array loudspeaker. Its transducers shall include two 4-inch diaphragm compression drivers coupled to a constant-directivity horn through a patented REM manifold, and two 15-inch, long-excursion cone drivers.

The loudspeaker shall incorporate internal processing and a 3-channel class AB/H bridged amplifier with complementary MOSFET output stages. Protection circuits shall include TruPower limiting. The audio input shall be electronically balanced with a 10 k Ω impedance and accept a nominal 0 dBV (1.0 V rms) signal (+20 dBV to produce maximum peak SPL). Audio connectors shall be XLR 5-pin, female and male, accommodating both balanced audio and RMS. Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range shall be 55 Hz to 16 kHz; phase response shall be 375 Hz to 14 kHz ± 30 degrees; linear peak SPL shall be 149.5 dB with 20 dB crest factor, measured free-field with M-noise at 4 m referred to 1 m.

The internal power supply shall perform EMI filtering, soft current turn-on, and surge suppression. Power requirements shall be nominal 230 V AC line current at 50–60 Hz. UL and CE operating voltage range shall be 208–235 V AC at 50–60 Hz. Current draw during burst (< 1 sec) shall be 8 A rms at 230 V AC. Current inrush during soft turn-on shall not exceed 15 A at 230 V AC. The AC power connector shall be a powerCON 32. The loudspeaker shall include an RMS remote monitoring system module.

Components shall be mounted in an optimally tuned, vented enclosure constructed of premium multi-ply birch and coated with a slightly textured black finish. The protective grille shall be powder-coated, hex-stamped steel with acoustical black mesh. Dimensions shall be 44.42 in (1128 mm) wide x 17.85 in (453 mm) high x 23.00 in (584 mm) deep. Weight shall be 265 lb (120.2 kg).

The loudspeaker shall be the Meyer Sound LEO-M.

