

DS-4P *Self-Powered Mid-Bass Reinforcement Loudspeaker*

FEATURES



Integrated control electronics and amplifiers



TruPower™ Limiting (TPL)



Intelligent AC™ System



Compatible with the Remote Monitoring System™ (RMS)



High-power



Extremely low distortion



Reliable and durable



Arrayable

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



**Meyer
Sound**

The self-powered DS-4P is an arrayable mid-bass loudspeaker system that provides high power sound reinforcement with extremely low distortion. It was developed to supplement the 70-200Hz band in full-range systems, affording additional mid-bass headroom. The DS-4P is most effective when used in multiples within an array, and easily can be incorporated into conventionally powered or self-powered systems. The DS-4P uses two 12-inch cone drivers in a true horn enclosure. The horn's flare provides maximum energy transfer in the mid-bands with minimum frequency response ripple.

Like all Meyer self-powered loudspeaker systems, the DS-4P exhibits superior performance across virtually all parameters. Because the amplifier and control electronics are optimized for the drivers, the system is able to produce more power with a flatter response and lower distortion. The self-powered concept simplifies installation, and eliminates amplifier racks and external drive processing.

The DS-4P incorporates a two-channel Class AB/H power amplifier, Meyer Sound's proprietary phase-corrected active processing circuits, and driver protection voltage limiters to ensure exceptional performance and reliability.



A laser-trimmed differential input stage affords superior common-mode rejection to allow signal runs through a simple twisted pair cable. Rear panel LEDs indicate AC power and driver protection limiting. The DS-4P's integral power supply suppresses high voltage transients and incorporates the Intelligent AC™ system. This automates voltage selection, allowing worldwide operation, and additionally provides EMI filtering, soft current turn-on, and surge suppression. Installation of this unit is as simple as providing power and an audio signal source. Servicing in the field is facilitated by the modular design; the entire power amplifier module can be accessed and replaced, if necessary.

The rugged cabinet is coated with a textured black finish (carpet covering is an option) for durability and ease of handling. The DS-4P comes standard with six aircraft pan fittings (ring and stud), three on the top and three on the bottom of the enclosure. L-Track rigging can be fitted as an option. Also available is a variety of hanging and arraying hardware to create a complete system.

The DS-4P easily integrates with the Remote Monitoring System™ (RMS) network and software application. Windows-based RMS displays signal and power levels, driver and cooling fan status, limiter activity, and amplifier temperature for all networked loudspeakers.

DS-4P SPECIFICATIONS

ACOUSTICAL¹ (EACH LOUDSPEAKER)

Frequency Response² ±4 dB from 70 Hz to 200 Hz
 Phase Response² ±70° from 70 Hz to 200 Hz
 Maximum SPL² >142 dB SPL peak@1 meter
 Dynamic Range >120 dB

COVERAGE

(-6 dB points) 120°H; 120°V

TRANSDUCERS

Low Frequency (2) MS-12 12-inch cone drivers

AUDIO INPUT

Type 10kΩ 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 Capability³ 1240 watts (620 watts/channel)³
 THD, IM, TIM <.02 %

AC POWER

Connector 250V NEMA L6-20P (twistlock) inlet or IEC 309 male inlet
 Automatic Voltage Selection 95-125 VAC and 208-235 VAC; 50/60 Hz
 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) @115V: 8A @230V: 4A @100V: 10A
 Burst RMS Current (<1 sec) @115V: 15A @230V: 8A @100V: 18A
 Max Peak Current During Burst @115V: 22Apk @230V: 11Apk @100V: 25Apk
 Soft Current Turn-on Inrush current <12A @ 115V

PHYSICAL

Dimensions Height: 36"; Width: 21.25"; Depth: 30"
 (914mm H x 540mm W x 762mm D)
 Weight 163 lbs (74 kg); shipping: 187 lbs (85 kg)
 with carpet: 169 lbs (77 kg); shipping: 192 lbs (87 kg)
 with L-Track 182 lbs (83 kg); shipping: 206 lbs (94 kg)
 with carpet, L-Track: 188 lbs (86 kg); shipping: 211 lbs (96 kg)
 Enclosure Multi-ply hardwood
 Finish Black textured
 Protective Grill Perforated steel grill, charcoal-grey foam
 Rigging Six aircraft pan fittings (three on top and bottom). Working load for each fitting is 600 lbs (273 kg) based on a 5:1 safety factor with a straight tensile pull.
 Optional L-Track rigging system: Working load at vertical pull using any two points is 1500 lbs (682 kg) based on a 5:1 safety factor.⁵

NOTES

1. Acoustical specifications are for the minimum configuration of two DS-4P cabinets and are measured on axis at 2 meters. One meter figure is derived from this data.
2. Subject to half space loading, measured with one-third octave frequency resolution in fixed ISO bands.
3. Nominal 8Ω resistive load, pink noise, 100V peak.
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.
5. Based on a New Haven part number NH47556-1 fitting.

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.

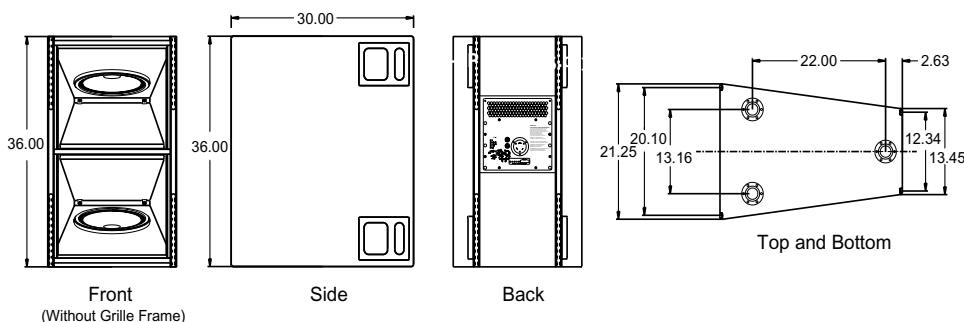
Meyer Sound reserves the right to alter any specification without notice.

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

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PHYSICAL DIMENSIONS

ALL UNITS IN INCHES



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