

# DF-4 *Self-Powered Dedicated Downfill Loudspeaker System*

## FEATURES

Integrated control electronics and amplifiers

TruPower™ Limiting (TPL)

Intelligent AC™ System

Compatible with RMS™ (Remote Monitoring System)

High power, flat frequency response

Extremely low distortion

L-Track rigging system

Arrayable and Flyable

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



**Meyer Sound**

The new Meyer Sound DF-4 is a medium-throw down fill self-powered loudspeaker system designed for supplementing coverage in systems employing suspended loudspeaker arrays. It provides even coverage to the areas below and to the front of the arrayed loudspeakers above, with frequency and phase response similar to Meyer Sound loudspeaker components typically used in medium-to-large loudspeaker systems. The self-powered DF-4 produces a maximum peak output of 138 dB SPL (@ 1 meter) within its operating frequency range of 60 Hz to 18 kHz.

All aspects of the DF-4 design have been tailored for this specific application. The enclosure shape and the high-frequency horn coverage pattern were carefully selected to ensure that adequate coverage is provided, minimal overlap is maintained and rigging is streamlined. The DF-4 can be incorporated easily into arrays consisting of Meyer Sound's Type 4 (MSL-4, DS-2P, DS-4P, PSW-2) and Type 6 (MSL-6, MSL-5, PSW-6) self-powered loudspeaker systems. Standard L-Track rigging hardware allows easy integration into QuickFly™ systems, with ring and stud fittings available as an option. Additionally, the DF-4 works very well in other supplemental fill applications such as under-balcony, effects or surround sound. It also can be used to build small, stand-alone arrays.

The compact, vented enclosure houses a direct



DF-4 Rigged Under an MSL-4

radiating MS-815 15" low frequency driver, and an MS-2001C 4-inch diaphragm compression driver coupled to a symmetrical 50° horn. The amplifier, controller and power supply electronics are integrated into a single, field-replaceable module. The two-channel class AB/H power amplifier employs complementary power MOSFET output stages and produces a total maximum output of 1240 W (620 Wrms/channel). TruPower limiting technology ensures maximum driver protection, reduces power compression and permits higher constant output for extended periods. The DF-4's Intelligent AC power supply provides automatic voltage selection, EMI filtering, soft

current turn-on and surge suppression. Phase-corrected, active processing circuits help maintain excellent performance and reliability, while the high common-mode rejection of the laser-trimmed differential input permits long signal runs through a simple twisted pair cable

The DF-4 cabinet is coated with a textured black paint finish (other colors to order) with carpet covering available as an option. The DF-4 is compatible with Meyer Sound's optional RMS (Remote Monitoring System), which provides comprehensive monitoring of system performance parameters over a Windows™-based network.

# DF-4 PRELIMINARY SPECIFICATIONS

<b>ACOUSTICAL<sup>1</sup></b> (EACH LOUSPEAKER)	<b>Operating Frequency Range<sup>2</sup></b>	60 Hz - 18 kHz
	<b>Free Field</b>	65 Hz - 18 kHz $\pm$ 4 dB
	<b>Half-Space<sup>3</sup></b>	55 Hz - 18 kHz $\pm$ 4 dB
	<b>Phase Response<sup>4</sup></b>	$\pm$ 60° from 200 Hz to 14 kHz
	<b>Maximum Peak SPL<sup>5</sup></b>	>138 dB
	<b>Signal to Noise Ratio</b>	>110
<b>COVERAGE</b>		50° symmetrical on 40° cabinet angle
<b>CROSSOVER</b>		500 Hz
<b>TRANSDUCERS</b>	<b>Low Frequency</b>	MS-815 15-inch cone driver
	<b>High Frequency</b>	MS-2010C 4-inch diaphragm 2-inch throat compression driver
<b>AUDIO INPUT</b>	<b>Type</b>	10k impedance, electronically balanced
	<b>Connector</b>	XLR (A-3) male and female
	<b>Nominal Input Level</b>	+4 dBu (1.23 Vrms)
<b>AMPLIFIERS</b>	<b>Type</b>	Complementary power MOSFET output stages (class AB/H)
	<b>Burst capability</b>	1240 Watts (620 Wrms/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
	<b>Automatic voltage selection</b>	95-125 VAC and 208-235 VAC; 50/60 Hz
	<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 s)</b>	@115 V: 15A    @230V: 8A    @100V: 18A
	<b>Max Peak Current During Burst</b>	@115 V: 22Apk    @230V: 11Apk    @100V: 25Apk
	<b>Soft Start Turn-on</b>	Inrush current <12A@115V
<b>PHYSICAL</b>	<b>Dimensions</b>	Height: 21.625" (549.275 mm); Width: 21.125" (536.575 mm); Depth: 26.375" (669.925 mm)
	<b>Weight</b>	120 lb (55 kg)
	<b>Enclosure/Finish</b>	Multi-ply Finnish Birch
	<b>Protective Grill</b>	Powder-coated Hex stamped steel
	<b>Rigging</b>	L-Track is provided at four corners Three aircraft pan fittings (ring & stud) or nut plates (m-10 or 3/8") can be provided as an option

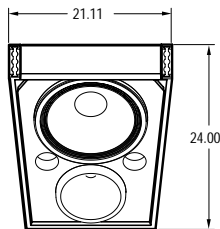
## NOTES

1. Measurements are taken at 3 m on-axis,  $\frac{1}{3}$  octave, unless otherwise stated.
2. Response depends on loading conditions and room acoustics.
3. Measured at 1.5 m with the DF-4 on a single boundary.
4. Phase variation from pure delay.
5. Measured at 1 m, with pink noise or music.

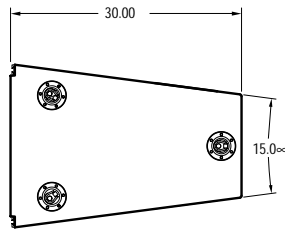
Specifications are preliminary and subject to change.

## PHYSICAL DIMENSIONS

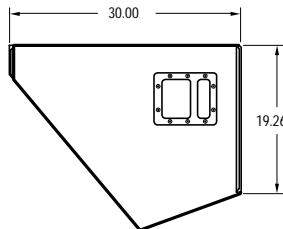
ALL UNITS IN INCHES



Front  
(Without Grille Frame)



Top



Side

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](http://www.meyersound.com) for up-to-date information.

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UL APPROVAL PENDING

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