

## MLD Downfill Specifications & Dimensions

### Acoustical

TYPE	Three-way cellular drive, active array element
FREQUENCY RESPONSE (1)	52Hz-18kHz $\pm$ 3dB
MAXIMUM SPL	LF: 133dB continuous, 139dB peak (3) MF: 133dB continuous, 139dB peak (4) HF: 134dB continuous, 140dB peak (4)

### Drivers

LF	2x12" (300mm)/3" (75mm) voice coil, ultra-long excursion, neodymium magnet drivers, Hybrid® bass horn loaded
MF	2 x 6.5" (165mm)/2" (50mm) coil, neodymium magnet drivers, horn loaded
HF	3 x 1" (25mm) exit neodymium magnet compression drivers, horn loaded

### Rated Power (2)

LF	800W AES, 3200W peak
MF	400W AES, 1600W peak
HF	150W AES, 600W peak

### Dispersion

(-6dB)	120° horizontal
(-10dB)	140° horizontal 20° vertical

### Crossover Frequencies

320Hz	8th-order Linkwitz-Riley
4kHz	Vanishing Point™ FIR filters

### Audio input

CONNECTORS	Female XLR input, male XLR link output
ANALOGUE INPUT IMPEDANCE	20k $\Omega$ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	6.15Vrms (+18dBu), over voltage protected
NOMINAL SYSTEM GAIN	28.5dB
AES/EBU IMPEDANCE	110Ohms balanced, Receive and transmit termination

### Network

CONNECTORS	2x IP68 rated 8-way, quick-release type
PROTOCOL	U-NET

### Amplifier Module

TYPE	Six channel Class D, fixed-frequency
PEAK OUTPUT POWER	6000W
AVERAGE EFFICIENCY	75%
COOLING	4 x temperature controlled internal fans 1 x low-speed internal blower 1 x temperature controlled external fan
MAXIMUM AMBIENT TEMPERATURE	45°C (113°F) for full output

### Power Supply

TYPE	Switch mode, fixed frequency with PFC
AC INPUT OPERATING RANGE	100 – 240V ~ AC, 50 - 60Hz
AC OVERVOLTAGE TOLERANCE	400V AC
POWER FACTOR	> 0.95
NOMINAL POWER CONSUMPTION	900W
MAINS CONNECTOR	16A IEC309 (Ceeform) – IP44 rated

## General

ENCLOSURE	Vertical trapezoid with 10° wall angle, multi-laminate birch and poplar-ply construction
FINISH	Textured black PU coating
PROTECTIVE GRILLE	Black HEX perforated steel
FITTINGS	Proprietary rigging system Bar handles on each side Protective Rubber side-cheeks incorporating skids Wheel-board Transit cover Weather protection cowl
IP RATING	IP 24
DIMENSIONS (inc. wheel-board)	(W) 1136mm x (H) 454mm (458mm) x (D) 680mm (840mm) (W) 44.7 x (H) 17.9in (18in) x (D) 26.8in (33.1in)
WEIGHT (ex. wheel-board)	91.5kg, 201lbs

## Accessories

Flying frame (including clinometer)  
Ground stacking bar  
Flying Pin  
Mains distribution system  
Tour-grade network interconnects  
Merlin Controller/U-NET Hub

### Notes

- (1) Measured on-axis in open (4p) space at 4 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half-space at 1 metre with a tone burst signal, then referred back to open (4p) space.
- (4) Calculated from 4m 2.83v sensitivity, referred to 1m.

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