



12W65-8S

BASS/MID RANGE DRIVER



GENERAL SPECIFICATIONS

Part Number	12W65-8S
Nominal Diameter	316mm (12in)
Nominal Impedance	8Ω
Minimum Impedance	6.8Ω
AES Power Handling ¹	300W
Maximum Power Handling ²	600W
Sensitivity (1W/1m) ³	96dB
Resonance Frequency	48Hz
Frequency Range	48Hz-4kHz
Voice Coil Diameter	63.8mm
Winding Material	Copper
Former Material	Glass Fiber
Winding Depth	15.7mm
Magnetic Gap Depth	8mm
X _{max} ⁴	9.1mm
Flux Density	1.15T
Basket Material	Cast Aluminum
Magnet Material	Ferrite
Suspension Material	Fabric
Surround Material	M-Roll Cloth-sealed
Cone Material	Curvilinear Paper
Net Weight	4.7kg

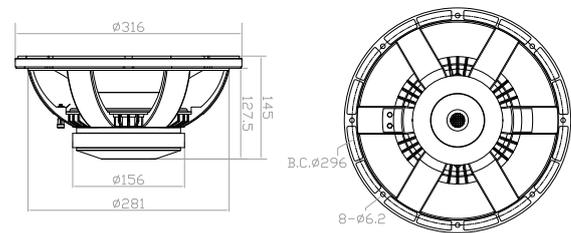
TS Parameters⁵

F _s	49Hz	Q _{ms}	9.8
R _e	5.6Ω	Q _{es}	0.42
L _e	0.59mH	Q _{ts}	0.40
M _{ms}	56g	V _{as}	78L
M _{md}	48g	Ref. Efficiency	2.2%
C _{ms}	0.18mm/N	S _d	551cm ²
BL	15.3Tm	EBP	116Hz

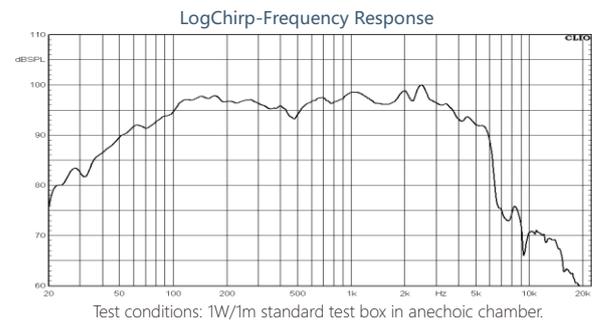
KEY FEATURES

- 96dB 1W/1m sensitivity
- 300W AES power handling
- 48Hz-4kHz frequency response
- 63.8mm (2.5in) copper voice coil
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for compact two way systems

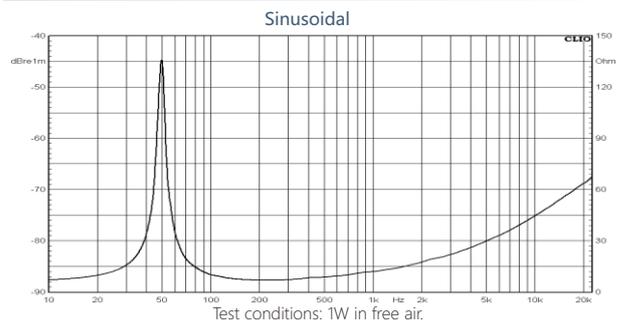
MECHANICAL DRAWING



FREQUENCY RESPONSE CURVE



IMPEDANCE CURVE



NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. X_{max}=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
5. Thiele-Small parameters are measured after a preconditioning test.
6. Power test by continuous pink noise signal within the frequency range.