

KEY FEATURES



- High power handling and low distortion 12" subwoofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Aluminium demodulating ring
- Ultra low air noise
- Optimized linear behaviour

- Weatherproof cone with treatment for both sides
- Double silicone spider
- 4" DUO double layer in/out voice coil
- Extended controlled displacement: $X_{\max} \pm 11$ mm
- 65 mm peak-to-peak excursion before damage
- Optimized for direct radiation and band-pass subwoofer applications



TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		6,8 Ω
Power capacity ¹		1.300 W _{AES}
Program power ²		2.600 W
Sensitivity	96 dB	1W / 1m @ Z _N
Frequency range		45 - 1.500 Hz
Recom. enclosure		V _b = 45 l
(Bass-reflex design)		F _b = 50 Hz
Voice coil diameter	101,6 mm	4 in
BI factor		26,4 N/A
Moving mass		0,125 kg
Voice coil length		28 mm
Air gap height		14 mm
X _{damage} (peak to peak)		65 mm

Notes:

¹ The power capacity is determined according to AES2-1984 (r2003) standard.

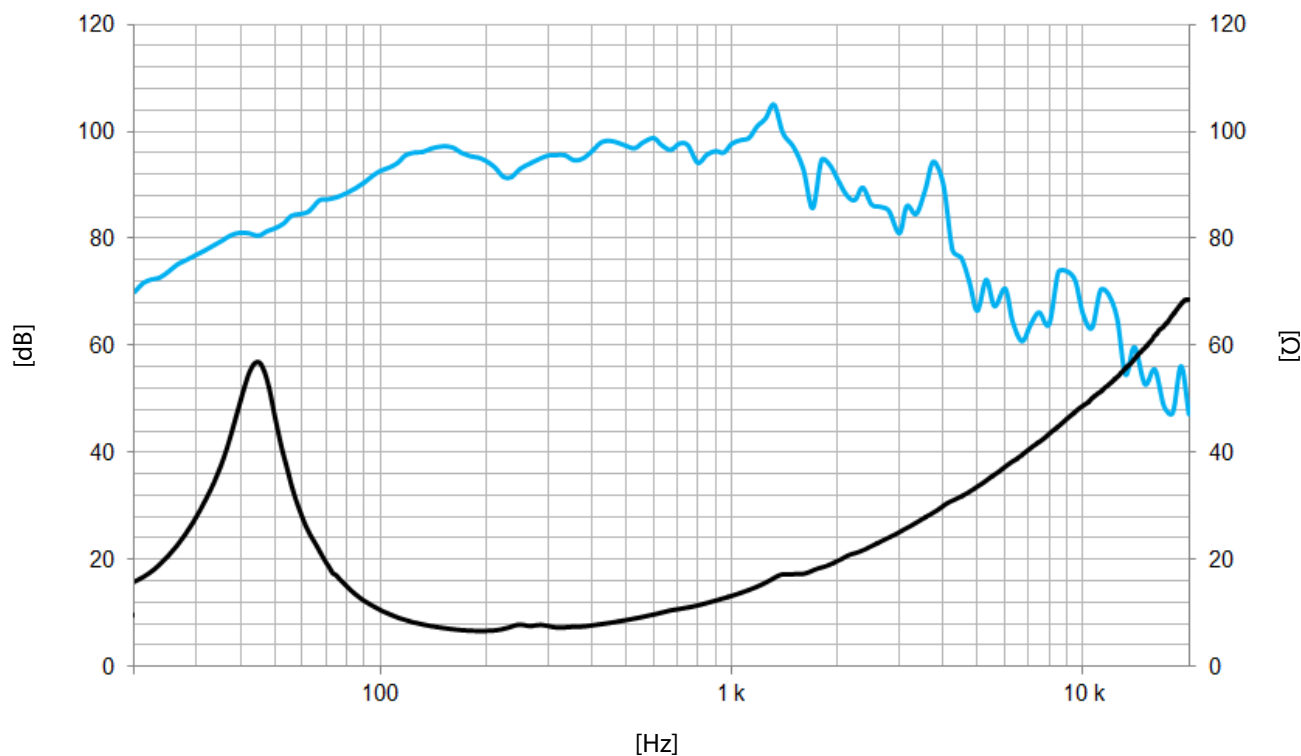
² Program power is defined as power capacity + 3 dB.

³ T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

⁴ The X_{max} is calculated as (L_{vc} - H_{ag})/2 + (H_{ag}/3,5), where L_{vc} is the voice coil length and H_{ag} is the air gap height.

THIELE-SMALL PARAMETERS ³

Resonant frequency, f _s	45 Hz
D.C. Voice coil resistance, R _e	5 Ω
Mechanical Quality Factor, Q _{ms}	4,2
Electrical Quality Factor, Q _{es}	0,25
Total Quality Factor, Q _{ts}	0,24
Equivalent Air Volume to C _{ms} , V _{as}	43 l
Mechanical Compliance, C _{ms}	100 μ m / N
Mechanical Resistance, R _{ms}	8,4 kg / s
Efficiency, η_0	1,5 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ⁴	11 mm
Displacement Volume, V _d	605 cm ³
Voice Coil Inductance, L _e	1,3 mH



Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	315 mm	12,4 in
Bolt circle diameter	297,5 mm	11,7 in
Baffle cutout diameter:		
- Front mount	282 mm	11,1 in
Depth	176 mm	6,9 in
Volume displaced by driver	3,5 l	0,12 ft ³
Net weight	8,3 kg	18,3 lb
Shipping weight	9,0 kg	19,8 lb

DIMENSION DRAWING

