

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
- Ultra low air noise
- Optimized non-linear behaviour

- Waterproof cone with treatment for both sides
- Double silicone spider
- 4" DUO double layer in/out voice coil
- Aluminium demodulating ring
- 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 (Bass-reflex design) | V _b = 45 l F _b = 50 Hz | |
| Voice coil diameter | 101,6 mm | 4 in |
| Bl 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.

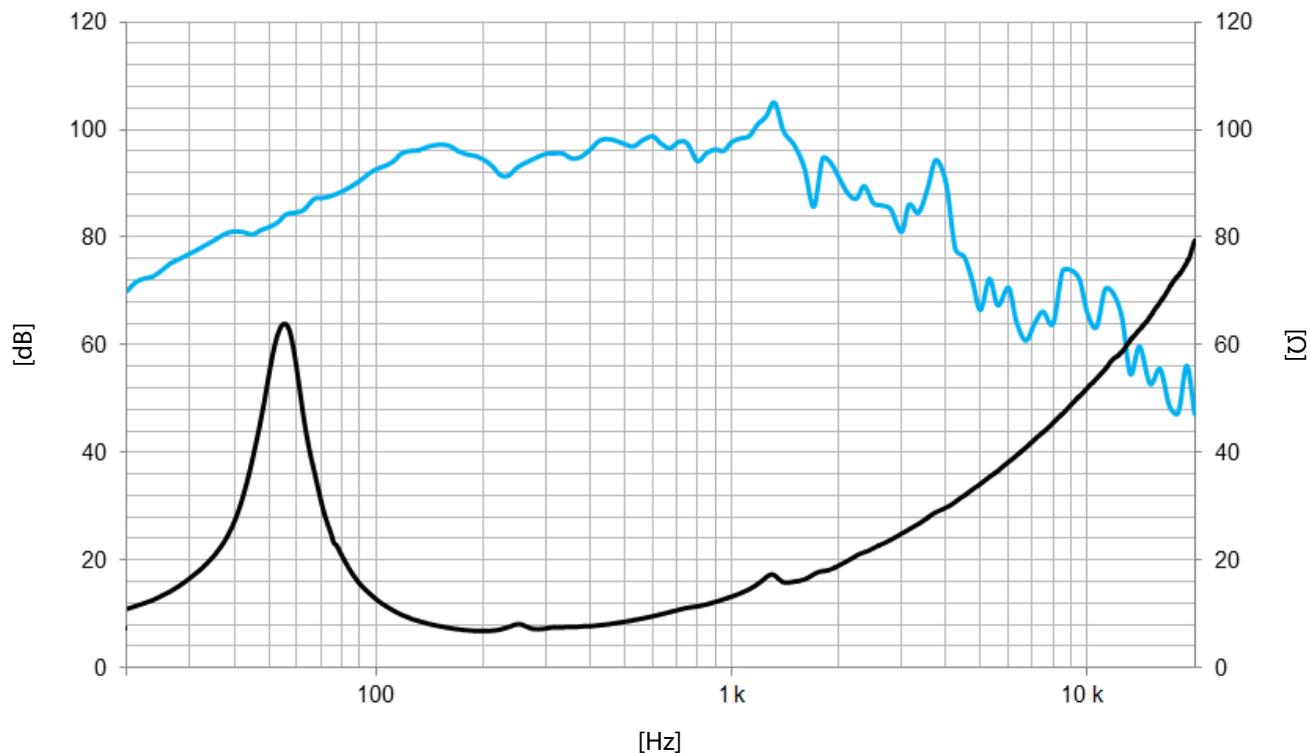
² Program power is defined as power capacity + 3 dB.

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 PARAMETERS³

| | |
|--|----------------------|
| 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

