

## 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 $\Omega$
Minimum impedance		6,8 $\Omega$
Power capacity <sup>1</sup>		1.300 W <sub>AES</sub>
Program power <sup>2</sup>		2.600 W
Sensitivity	96 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		45 - 1.500 Hz
Recom. enclosure		V <sub>b</sub> = 45 l
(Bass-reflex design)		F <sub>b</sub> = 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 <sub>damage</sub> (peak to peak)		65 mm

### Notes:

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

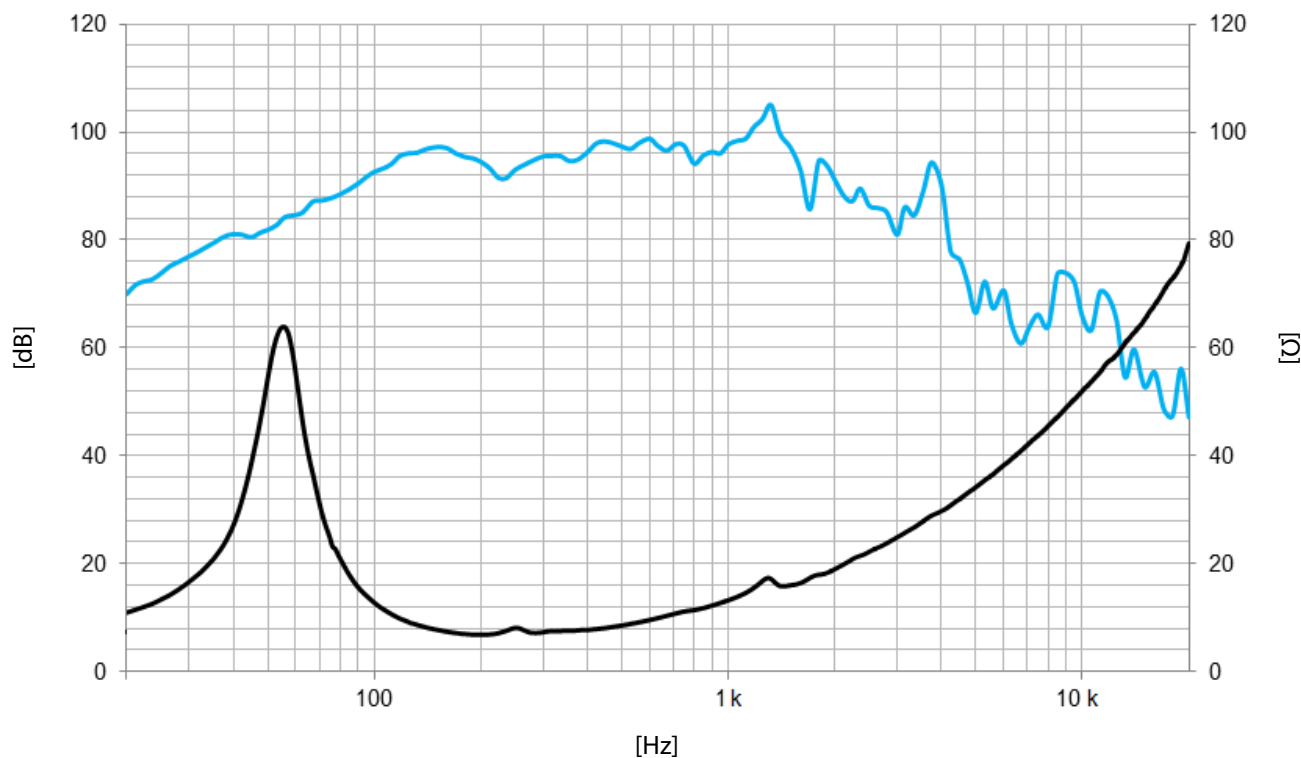
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<sup>3</sup> 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).

<sup>4</sup> The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.

## THIELE-SMALL PARAMETERS <sup>3</sup>

Resonant frequency, f <sub>s</sub>	45 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	4,2
Electrical Quality Factor, Q <sub>es</sub>	0,25
Total Quality Factor, Q <sub>ts</sub>	0,24
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	43 l
Mechanical Compliance, C <sub>ms</sub>	100 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	8,4 kg / s
Efficiency, $\eta_0$	1,5 %
Effective Surface Area, S <sub>d</sub>	0,055 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	11 mm
Displacement Volume, V <sub>d</sub>	605 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	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 <sup>3</sup>
Net weight	8,3 kg	18,3 lb
Shipping weight	9,0 kg	19,8 lb

### DIMENSION DRAWING

