

### KEY FEATURES

- 700 W<sub>AES</sub> power handling capacity
- High sensitivity: 99 dB (1W / 1m)
- Wide usable frequency range
- Low harmonic distortion
- Low resonant frequency: 48 Hz
- Low power compression losses
- Waterproof cone with treatment for both sides
- 4" DUO double layer in/out aluminium voice coil
- Conex spider
- Extended controlled displacement: X<sub>max</sub> ± 7,5 mm
- 52 mm peak-to-peak excursion before damage



### TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7 Ω
Power capacity <sup>1</sup>		700 W <sub>AES</sub>
Program power <sup>2</sup>		1.400 W
Sensitivity	99 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		50 - 4.000 Hz
Recom. enclosure		V <sub>b</sub> = 40 l
(Bass-reflex design)		F <sub>b</sub> = 75 Hz
Voice coil diameter	101,6 mm	4 in
Bl factor		23 N/A
Moving mass		0,076 kg
Voice coil length		20 mm
Air gap height		12 mm
X <sub>damage</sub> (peak to peak)		52 mm

Notes:

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

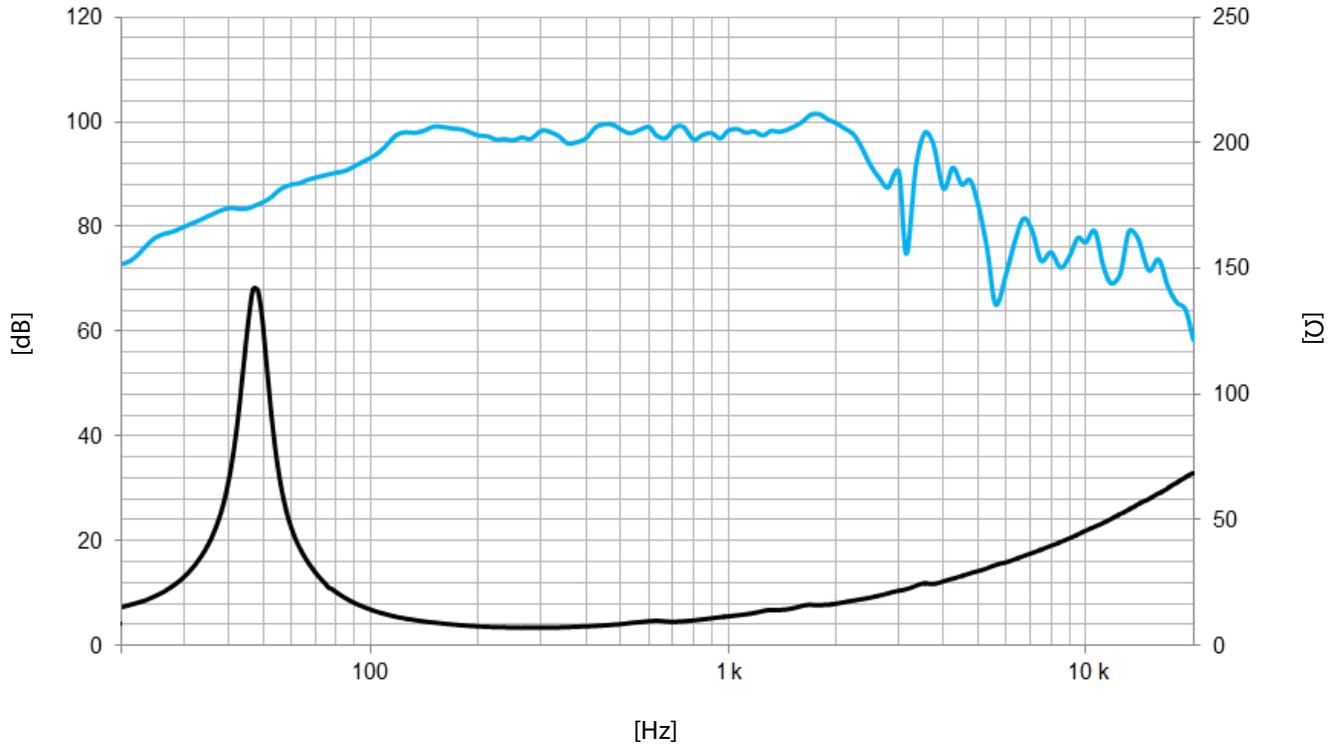
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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>	48 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5, Ω
Mechanical Quality Factor, Q <sub>ms</sub>	6,5
Electrical Quality Factor, Q <sub>es</sub>	0,22
Total Quality Factor, Q <sub>ts</sub>	0,21
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	61 l
Mechanical Compliance, C <sub>ms</sub>	143 μm / N
Mechanical Resistance, R <sub>ms</sub>	3,5 kg / s
Efficiency, η <sub>0</sub>	3 %
Effective Surface Area, S <sub>d</sub>	0,055 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	7,5 mm
Displacement Volume, V <sub>d</sub>	412 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	1,1 mH



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

### MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	298 mm	11,7 in
Baffle cutout diameter:		
- Front mount	283 mm	11,1 in
Depth	135 mm	5,3 in
Net weight	11,5 kg	25,3 lb
Shipping weight	12,2 kg	26,9 lb

### DIMENSION DRAWING

