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PROFESSIONAL LOUDSPEAKERS

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12LX60V2

LOW FREQUENCY TRANSDUCER

LX60 Series

KEY FEATURES

- High power handling: 700 W_{AES}
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized magnetic circuit
- CONEX spider for higher resistance and consistency
- Weatherproof cone with treatment for both sides of the cone
- 4" DUO double layer in/out voice coil
- Extended controlled displacement: X_{max} ± 9 mm
- 47 mm peak-to-peak excursion before damage





TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7,1 Ω
Power capacity [1]		700 W_{AES}
Program power [2]		1.400 W
Sensitivity	96 dB	1W / 1m @ Z_N
Frequency range		35 - 2.000 Hz
Recom. enclosure		V_b = 40 l
(Bass-reflex design)		F_b = 50 Hz
Voice coil diameter	101,6 mm	4 in
Bl factor		20 N/A
Moving mass		0,102 kg
Voice coil length		20 mm
Air gap height		10 mm
X_{damage} (peak to peak)		47 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	49 Hz
D.C. Voice coil resistance, R_e	5,1 Ω
Mechanical Quality Factor, Q_{ms}	15,3
Electrical Quality Factor, Q_{es}	0,40
Total Quality Factor, Q_{ts}	0,38
Equivalent Air Volume to C_{ms}, V_{as}	43 l
Mechanical Compliance, C_{ms}	99 µm / N
Mechanical Resistance, R_{ms}	2,1 kg / s
Efficiency, η_0	1,2 %
Effective Surface Area, S_d	0,055 m^2
Maximum Displacement, X_{max} [4]	9 mm
Displacement Volume, V_d	500 cm^3
Voice Coil Inductance, L_e @ 1 kHz	2,1 mH

Notes:

[1] The power capaticty 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.

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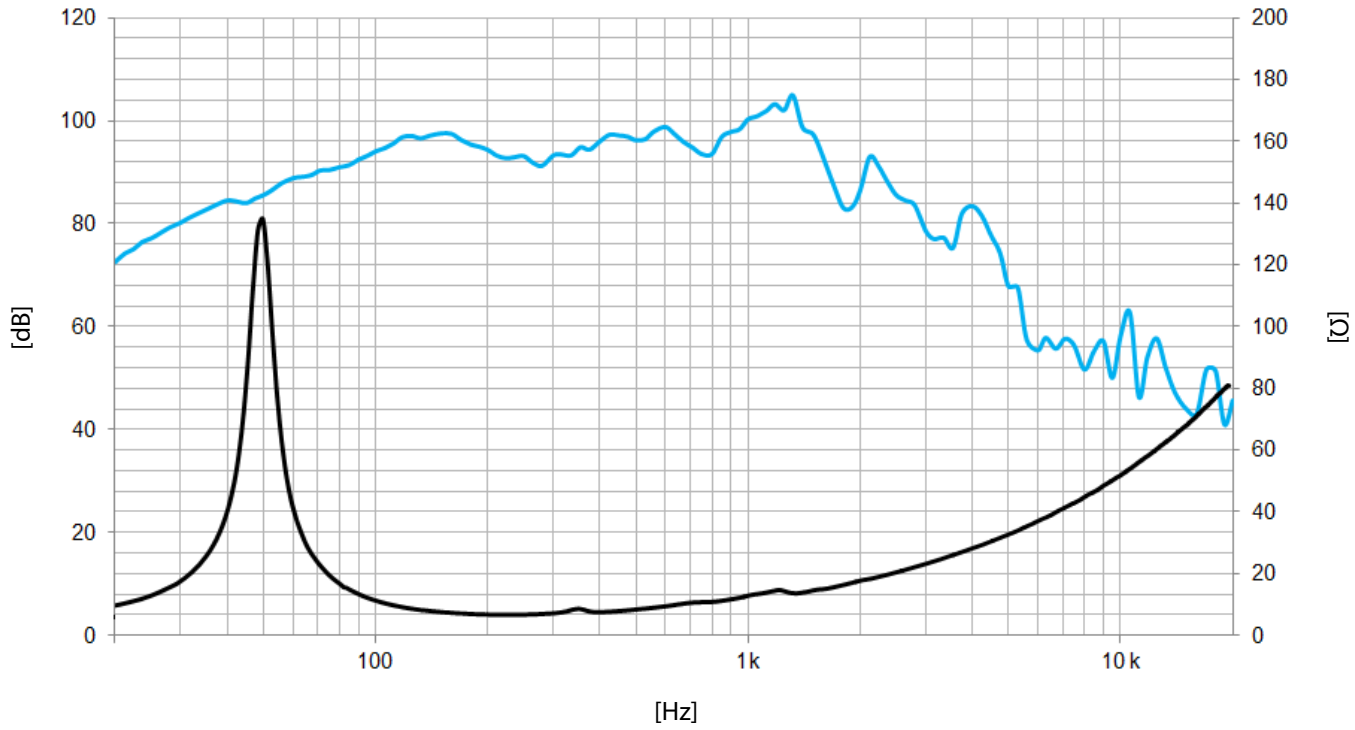
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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

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	122 mm	4,8 in
Net weight	9,7 kg	21,4 lb
Shipping weight	10,4 kg	22,9 lb

DIMENSION DRAWING

