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PROFESSIONAL LOUDSPEAKERS

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18LX60V2/S

LOW FREQUENCY TRANSDUCER

LX60 Series

KEY FEATURES

- High power handling: 700 W_{AES}
- High sensitivity: 98 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} ± 8 mm
- 47 mm peak-to-peak excursion before damage





TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		6,4 Ω
Power capacity [1]		700 W_{AES}
Program power [2]		1.400 W
Sensitivity	98 dB	1W / 1m @ Z_N
Frequency range		25 - 1.000 Hz
Recom. enclosure		V_b = 250 l
(Bass-reflex design)		F_b = 35 Hz
Voice coil diameter	101,6 mm	4 in
Bl factor		21,8 N/A
Moving mass		0,215 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	35 Hz
D.C. Voice coil resistance, R_e	5,1 Ω
Mechanical Quality Factor, Q_{ms}	15,7
Electrical Quality Factor, Q_{es}	0,5
Total Quality Factor, Q_{ts}	0,48
Equivalent Air Volume to C_{ms}, V_{as}	236 l
Mechanical Compliance, C_{ms}	94,5 µm / N
Mechanical Resistance, R_{ms}	3,1 kg / s
Efficiency, η_0	1,9 %
Effective Surface Area, S_d	0,132 m^2
Maximum Displacement, X_{max} [4]	8 mm
Displacement Volume, V_d	1056 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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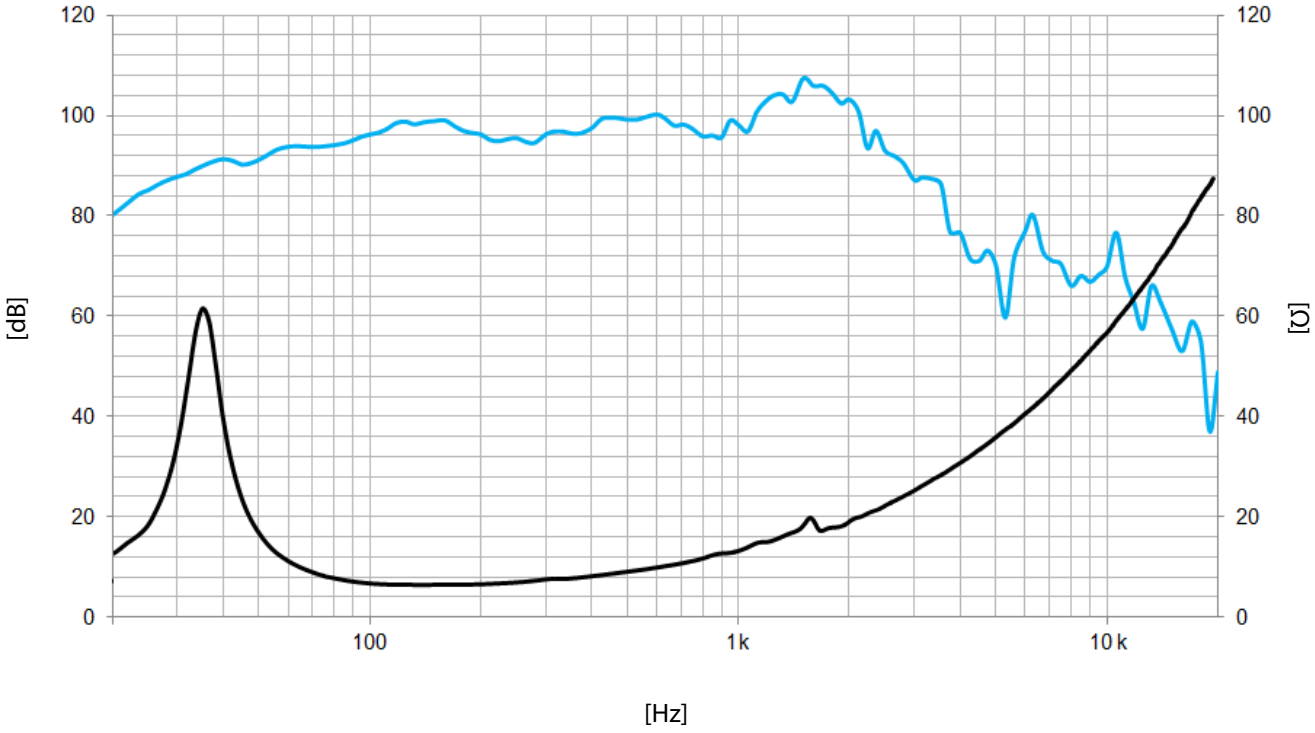
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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	461 mm	18,2 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,4 in
Depth	193 mm	7,6in
Net weight	11,2 kg	25,8 lb
Shipping weight	12,5 kg	27,5 lb

DIMENSION DRAWING

