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PROFESSIONAL LOUDSPEAKERS
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18LX60V2

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

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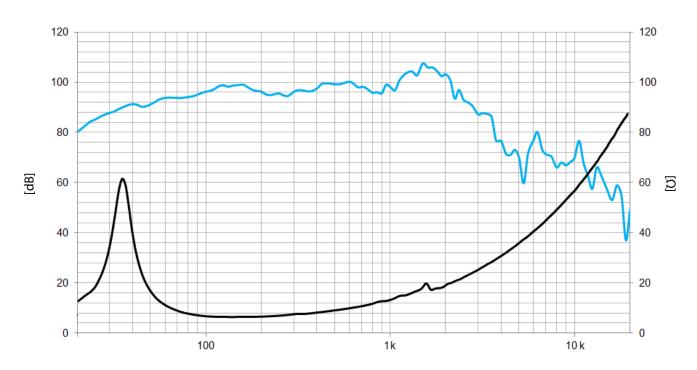
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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	462 mm	18,2 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,3 in
Depth	198 mm	7,8 in
Net weight	11,7 kg	25,7 lb
Shipping weight	13,2 kg	29,0 lb

DIMENSION DRAWING

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