

PROFESSIONAL LOUDSPEAKER

12LX60V2

LOW FREQUENCY TRANSDUCER LX60V2 series

KEY FEATURES

- High power handling: 700 w AES
- High sensitivity: 96 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion
- CONEX spider for higher resistance and consistency
- Waterproof treatment for both sides of the cone
- 4" DUO double layer inner/outer voice coil
- Extended controlled displacement: Xmax ± 9 mm
- Massive mechanical displacement capability: Xdamage ± 58mm

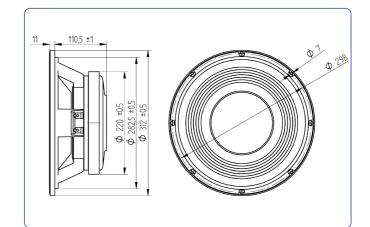
TECHNICAL SPECIFICATIONS

Nominal diameter	300mm. 12 in.
Rated impedance	8 ohms
Minimum impedance	7.1 ohms
Power capacity*	700 w AES
Program power	1400 w
Sensitivity	96 dB 2.83v @ 1m @ 2π
Frequency range	35 - 2000 Hz
Recom. enclosure vol.	12 / 60 l 0.7 / 2.24 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	9 kg. 19.84 lb.
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)	58 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, fs D.C. Voice coil resistance, Re	49 Hz 5.1 ohms
Mechanical Quality Factor, Qms	15.3
Electrical Quality Factor, Qes	0.4
Total Quality Factor, Qts	0.38
Equivalent Air Volume to Cms, Vas	431
Mechanical Compliance, Cms	99 µ m / N
Mechanical Resistance, Rms	2.1 kg / s
Efficiency, ηο (%)	1.21
Effective Surface Area, Sd (m ²)	0.055 m ²
Maximum Displacement, Xmax***	9 mm
Displacement Volume, Vd	500 cm ³
Voice Coil Inductance, Le @ Zmin	2.1 mH

DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter Bolt circle diameter Baffle cutout diameter:	312 mm. 298 mm.	•
- Front mount	283 mm.	11.14 in.
- Rear mount	280 mm.	11.02 in.
Depth	123 mm.	4.84 in.
Volume displaced by driver	5,5 l.	0.14 ft. ³
Net weight	9.7kg.	21.39 lb.
Shipping weight	10.4 kg.	22.92 lb.

Notes:

*The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

**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).

***The Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.

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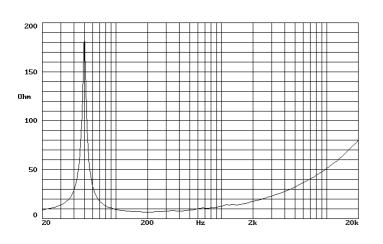


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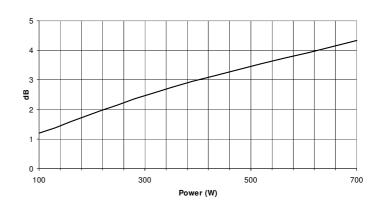
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FREE AIR IMPEDANCE CURVE

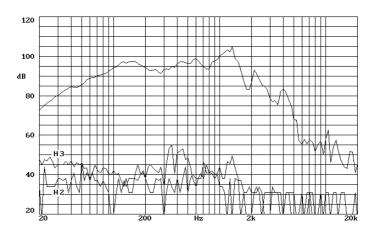


POWER COMPRESSION LOSSES



Note: Power Compression Losses were calculated after 5 minutes period applying a pink noise signal filtered between 50 and 500 Hz.

FREQUENCY RESPONSE AND DISTORTION



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 2.83V @ 1m.

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