

Oberton 12 L 300



KEY FEATURES:

- 100.5 db 1W / 1m average sensitivity
- 64 mm high temperature aluminium voice coil
- 600 W AES program power
- Powerful, ferrite 169 mm magnet structure
- Silicone spider

Application : Woofer with extended mid for live music

The **12L300** loudspeaker is combining high efficiency, wide range and high power handling capability with use of 64 mm aluminium voice coil. It features vented aluminium die cast frame, 169 mm magnet structure and curvilinear cone. **12L300** is suitable for application as LF driver in a compact 2 way PA boxes.

SPECIFICATIONS

Nominal Diameter	12"/310 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.20 Ohm
Power Capacity AES ¹	400 W
Program Power ²	800 W
Sensitivity	(200-2000 Hz) 100.5 dB/W/m
Frequency Range	60 - 5000 Hz
Voice Coil Diameter	64 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	11 mm
Magnet Gap Depth	9 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.35 T

THIELE-SMALL PARAMETERS

Resonance Frequency	53.80 Hz
Mechanical Efficiency Factor (Qms)	9.98
Electrical Efficiency Factor (Qes)	0.261
Total Q (Qts)	0.254
Equivalent Air Volume (Vas)	79.63 Litres
Diaphragm mass ind. airload (Mms)	40.65 grams
Voice Coil Resistance Re	5.35 Ohms
Effective Diaphragm Area (Sd)	514.7 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 3.25 mm
Mechanical Compliance of Suspension (Cms)	0.215 mm/N
BL Product (BL)	16.78 T.m
V.C. Inductance at 1 kHz (Le)	0.69 mH

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 65 L box enclosure tuned 63 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.

2. Program power is defined as 3db greater than AES Power Capacity.

* Linear Mathematical Xmax is calculated as: $(Hvc - Hg)/2 + Hg/4$ where Hvc is the voice coil depth and Hg is the gap depth.

MOUNTING INFORMATION

Overall Diameter	310 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 with dia. 7 mm
Bolt Circle Diameter	294 mm
Overall Depth	144.7 mm
Net Weight	6.8 kg

Frequency Response

