



KEY FEATURES:

99 db 1W / 1m average sensitivity 100 mm high temperature sandwich voice coil 1200 W AES program power Vented neodymium magnet assembly with massive heatsink Double aluminium demodulating rings for lower distortion and improved heat dissipation Water protected cone (front)

Application : High power woofer

The **12NB601** loudspeaker combining good linearity and efficiency with high power handling capabilities. It features 100 mm aluminium voice coil, silicone spider, vented aluminium die cast frame and vented neodymium magnet structure. The used inside double demodulating rings ensure ultra low distortion. The massive heatsink improves the cooling of the magnet structure, which reduce power compression. 12NB601 is suitable for application as LF driver in compact 2- way and compact bass boxes including application in bass horns.





SPECIFICATIONS

Nominal Diameter Impedance Minimum Impedance Power Capacity AES ¹ Program Power² Sensitivity Frequency Range Voice Coil Diameter Voice Coil Material Voice Coil Former Voice Coil Winding Depth Magnet Gap Depth Cone Material Basket Magnet Flux Density

12"/315 inch/mm 8 Ohm 6.04 Ohm 600 W 1200 W (200 - 2000 Hz) 99 dB/W/m 50 - 3000 Hz 100 mm Aluminium Kapton 23 mm 11 mm Paper with glassfiber Die Cast Aluminium Neodymium 1.30 T

THIELE-SMALL PARAMETERS

F	Resonance Frequency	50.47 Hz
Ν	lechanical Efficiency Factor (Qms)	10.02
E	electrical Efficiency Factor (Qes)	0.315
٦	otal Q (Qts)	0.305
E	quivalent Air Volume (Vas)	38.71 litres
Ľ	Diaphragm mass ind. airload (Mms)	95.03 grams
١	/oice Coil Resistance Re	5.48 Ohms
E	ffective Diagram Area (Sd)	514.7 cm ²
F	Peak Linear Displacement of Diaphragm (Xmax)*	±8.75 mm
Ν	Aechanical Compliance of Suspension (Cms)	0.105 mm/N
E	BL Product (BL)	22.91 T.m
١	/.C. Inductance at 1 kHz (Le)	0.97 mH

MOUNTING INFORMATION

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.

Overall Diameter	315 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 eliptic 7x8 mm
Bolt Circle Diameter	296 / 298 mm
Overall Depth	184 mm
Net Weight	7.8 kg







Frequency Responce







