

12NW100

LF Drivers - 12.0 Inches

2000 W continuous program power capacity
100 mm (4 in) copper voice coil
45 - 1500 Hz response
96 dB sensitivity
FEA optimized Neodymium magnet assembly
Double silicone spider with optimized compliance
Ventilated voice coil gap for reduced power compression



Specifications

Nominal diameter	320 mm (12.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.2 Ω
Nominal power handling ¹	1000 W
Continuous power handling ²	2000 W
Sensitivity (1W/1m) ³	96.0 dB
Frequency range	45 - 1500 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	25 mm (1.0 in)
Magnetic gap depth	12 mm (0.5 in)
Flux density	1.2 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Neodymium Inside Slug

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	TWP Waterproof Both Sides
Recommended enclosure	50.0 dm ³ (1.77 ft ³)
Recommended tuning	50 Hz

Parameters⁴

Fs	42 Hz
Re	5.1 Ω
Qes	0.21
Qms	3.6
Qts	0.2
Vas	44.0 dm ³ (1.5 ft ³)
Sd	531.0 cm ² (82.3 in ²)
η_0	1.7 %
Xmax	9.0 mm
Xvar	10.0 mm
Mms	119 g
Bl	28.0 Txm

Parameters

Le	1.9 mH
EBP	200 Hz

Mounting And Shipping Info

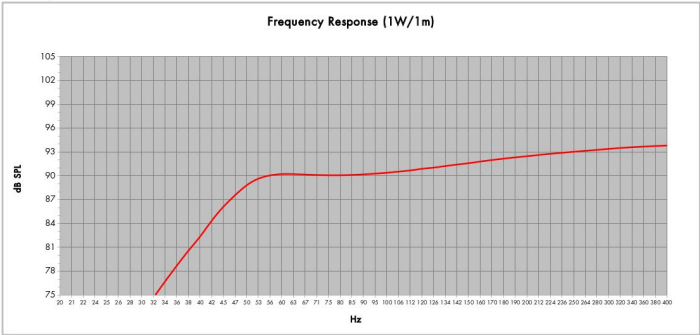
Overall diameter	319 mm (12.5 in)
Bolt circle diameter	299 mm (11.8 in)
Baffle cutout diameter	281.0 mm (11.1 in)
Depth	137 mm (5.4 in)
Flange and gasket thickness	13 mm (0.5 in)
Air volume occupied by driver	2.7 dm ³ (0.09 ft ³)
Net weight	8.2 kg (18.0 lb)
Shipping weight	8.9 kg (19.6 lb)
Shipping box	340x340x170 mm (13.4x13.4x6.7 in)

Service Kit

RCK12NW1008

1. 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



Model:	12NW100	Configuration:	One Driver
Enclosure Type:	Box Reflex		
Internal Net Volume (litres):	50	Q8:	3
Tuning Frequency (Hz):	50	Port Area (cm²):	208,1
Frequency (-3 dB) (Hz):	143,8	Port Length (cm):	35,9