

# 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 <sup>1</sup>	1000 W
Continuous power handling <sup>2</sup>	2000 W
Sensitivity (1W/1m) <sup>3</sup>	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 <sup>3</sup> (1.77 ft <sup>3</sup> )
Recommended tuning	50 Hz

## Parameters<sup>4</sup>

Fs	42 Hz
Re	5.1 Ω
Qes	0.21
Qms	3.6
Qts	0.2
Vas	44.0 dm <sup>3</sup> (1.5 ft <sup>3</sup> )
Sd	531.0 cm <sup>2</sup> (82.3 in <sup>2</sup> )
η <sub>o</sub>	1.7 %
X <sub>max</sub>	9.0 mm
X <sub>var</sub>	10.0 mm
M <sub>ms</sub>	119 g
Bl	28.0 T·xm

## Parameters

Le	1.9 mH
EBP	200 Hz

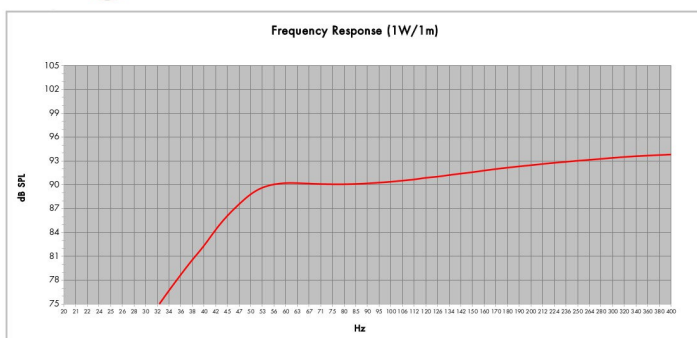
## Mounting And Shipping Info

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 <sup>3</sup> (0.09 ft <sup>3</sup> )
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

- 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.
- Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
- Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
- Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



Model: **12NW100**  
 Enclosure Type: **Bass Reflex** Configuration: **One Driver**  
 Internal Net Volume (liters): **50** Q<sub>B</sub>: **3**  
 Tuning Frequency (Hz): **50** Port Area (cm<sup>2</sup>): **208.1**  
 Frequency (-3 dB) (Hz): **143.8** Port Length (cm): **35.9**