

12BG100

LF Drivers - 12.0 Inches

2000 W continuous program power capacity

100 mm (4 in) copper voice coil

40 - 1000 Hz response

93 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	5.8 Ω
Nominal power handling ¹	1000 W
Continuous power handling ²	2000 W
Sensitivity (1W/1m) ³	93.0 dB
Frequency range	40 - 1000 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	27 mm (1.05 in)
Magnetic gap depth	11 mm (0.43 in)
Flux density	1.15 T

Design

Surround shape	Roll
Cone shape	Radial
Magnet material	Neodymium Inside Slug

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	WP Waterproof Front Side
Recommended enclosure	40.0 dm ³ (1.41 ft ³)
Recommended tuning	40 Hz

Parameters⁴

Fs	39 Hz
Re	5.1 Ω
Qes	0.35
Qms	6.8
Qts	0.33
Vas	41.0 dm ³ (1.45 ft ³)
Sd	522.0 cm ² (80.9 in ²)
η _o	0.7 %
X _{max}	10.5 mm
X _{var}	14.0 mm
M _{ms}	152 g
Bl	23.0 Txm

Parameters

Le	1.6 mH
EBP	111 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 units	1
Shipping weight	8.9 kg (19.6 lb)
Shipping box	340x340x170 mm (13.4x13.4x6.7 in)

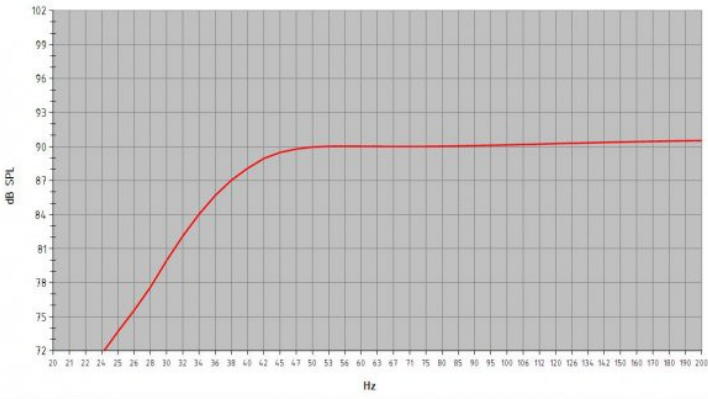
Service Kit

RCK12BG1008

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.

Frequency Response (2,83 Vrms/1 m)



Model: **12 BD 100**
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **40**
Tuning Frequency (Hz): **40** Port Area (cm²): **138.7**
Frequency (-3 dB) (Hz): **39.3** Port Length (cm): **53.8**

Excursion Limited Maximum SPL at 1 meter (dB): **118.3** equal to **698.6** Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB): **119.9** equal to **1000.0** Watts (Mid Band Power Rating)