

# 12BG100

## ND SUBWOOFER



**2000 W**  
continuous program  
power capacity

**100 mm (4 in)**  
copper voice coil

**93 dB**  
sensitivity

**40 - 1000 Hz**  
response

Aluminium demodulating ring for very low distortion

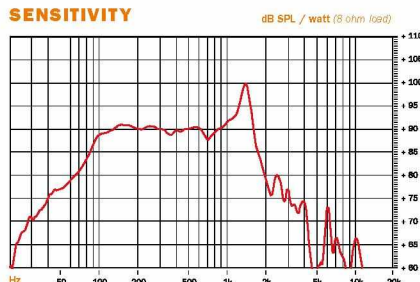
FEA optimized Neodymium magnet assembly

Double silicone spider with optimized compliance

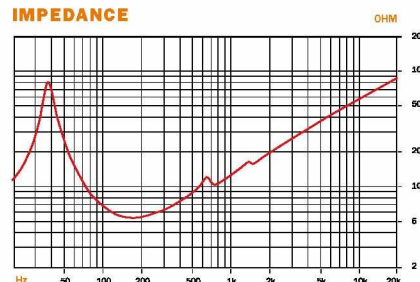
Ventilated voice coil gap for reduced power compression



### SENSITIVITY



### IMPEDANCE



### SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	5.8 Ω
Power Handling	
Nominal (AES) <sup>1</sup>	1000 W
Continuous Program <sup>2</sup>	2000 W
Sensitivity (1W/1m) <sup>3</sup>	93 dB
Frequency Range	40 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	27 mm (1.06 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

### THIELE & SMALL PARAMETERS<sup>4</sup>

Fs	39 Hz
Re	5.1 Ω
Qes	0.35
Qms	6.8
Qts	0.33
Vas	41 dm <sup>3</sup> (1.45 ft <sup>3</sup> )
Sd	522 cm <sup>2</sup> (80.9 in <sup>2</sup> )
η <sub>0</sub>	0.7 %
X max	± 10.5 mm
X var	± 14 mm
Mms	152 g
Bl	23 T·m
Le	1.6 mH
EBP	111 Hz

### MOUNTING AND SHIPPING INFORMATION

Overall Diameter	319 mm (12.5 in)
Bolt Circle Diameter	299 mm (11.8 in)
Baffle Cutout Diameter	282 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 lb)
Shipping Weight	9.1 kg (20.06)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12BG100-8

Also available in 4 and 16 Ω, data upon request

<sup>1</sup> Two hour test made with continuous pink noise signal (6 dB crest factor) within the specified range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

<sup>2</sup> Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

<sup>3</sup> Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 1000 Hz.

<sup>4</sup> Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.