

12PS100

LF Drivers - 12.0 Inches

1400 W continuous program power capacity

100 mm (4 in) copper voice coil

45 - 1000 Hz response

93 dB sensitivity

Double silicone spider with optimized compliance



Specifications

Nominal diameter	320 mm (12.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.7 Ω
Nominal power handling ¹	700 W
Continuous power handling ²	1400 W
Sensitivity (1W/1m) ³	93.0 dB
Frequency range	45 - 1000 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	21 mm (0.83 in)
Magnetic gap depth	11 mm (0.4 in)
Flux density	1.05 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Ferrite

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	TWP Waterproof Both Sides
Recommended enclosure	40.0 dm ³ (1.41 ft ³)
Recommended tuning	48 Hz

Parameters⁴

Fs	44 Hz
Re	5.3 Ω
Qes	0.29
Qms	3.9
Qts	0.27
Vas	47.0 dm ³ (1.6 ft ³)
Sd	531.0 cm ² (82.3 in ²)
η_0	1.3 %
Xmax	8.0 mm
Xvar	8.0 mm
Mms	106 g
Bl	22.5 Txm

Parameters

Le	2.0 mH
EBP	151 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	118 mm (4.6 in)
Flange and gasket thickness	13 mm (0.5 in)
Air volume occupied by driver	3.5 dm ³ (0.12 ft ³)
Net weight	8.8 kg (19.4 lb)
Shipping weight	9.4 kg (20.7 lb)
Shipping box	340x340x170 mm (13.4x13.4x6.7 in)

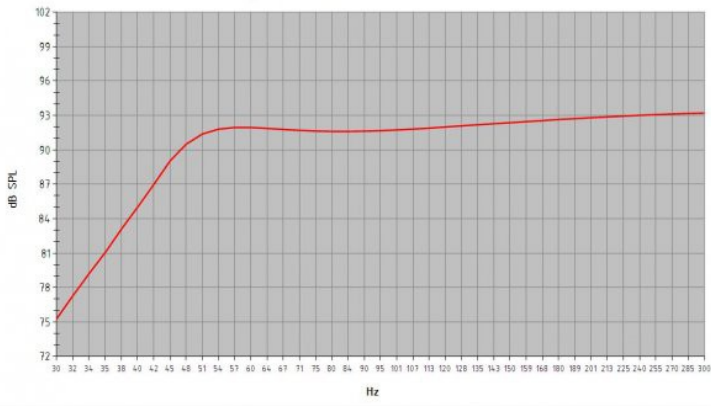
Service Kit

RCK12PS1008

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 PS 100**
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **40**
Tuning Frequency (Hz): **48**
Frequency (-3 dB) (Hz): **48.4**

Port Area (cm²): **138.7**
Port Length (cm): **33.8**

Excursion Limited Maximum SPL at 1 meter (dB): **119.1** equal to **425.4** Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB): **121.3** equal to **700.0** Watts (Mid Band Power Rating)