

12PLB100

LF Drivers - 12.0 Inches

1200 W continuous program power capacity
 100 mm (4 in) aluminium voice coil
 50 - 2500 Hz response
 97 dB sensitivity
 Aluminium demodulating ring allows a very low distortion figure
 Ventilated voice coil gap for reduced power compression



Specifications

Nominal diameter	320 mm (12.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.0 Ω
Nominal power handling ¹	600 W
Continuous power handling ²	1200 W
Sensitivity (1W/1m) ³	97.0 dB
Frequency range	50 - 2500 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Aluminium
Former material	Glass Fibre
Winding depth	23 mm (0.91 in)
Magnetic gap depth	10 mm (0.39 in)
Flux density	1.0 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Ferrite

Design

Spider	Single
Pole design	T-Pole
Woofer cone treatment	WP Waterproof Front Side
Recommended enclosure	40.0 dm ³ (1.41 ft ³)
Recommended tuning	52 Hz

Parameters⁴

Fs	50 Hz
Re	5.1 Ω
Qes	0.38
Qms	9.2
Qts	0.37
Vas	47.0 dm ³ (1.66 ft ³)
Sd	531.0 cm ² (82.0 in ²)
η_0	1.7 %
Xmax	9.0 mm
Xvar	7.0 mm
Mms	77 g
Bl	18.4 Txm

Parameters

Le	1.6 mH
EBP	131 Hz

Mounting And Shipping Info

Overall diameter	319 mm (12.5 in)
Bolt circle diameter	299 mm (11.8 in)
Baffle cutout diameter	282.0 mm (11.1 in)
Depth	122 mm (4.8 in)
Flange and gasket thickness	12 mm (0.47 in)
Air volume occupied by driver	3.5 dm ³ (0.12 ft ³)
Net weight	9.3 kg (20.5 lb)
Shipping weight	9.9 kg (21.83 lb)
Shipping box	365x365x210 mm (14.37x14.37x8.27 in)

Service Kit

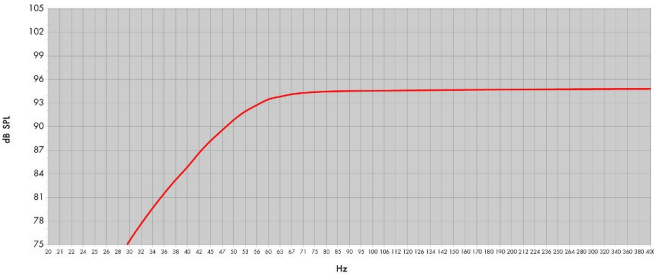
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1. 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
 2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

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 (1W/1m)



Model:	12P1B100		
Enclosure Type:	Bass Reflex		
Configuration:	One Driver		
Internal Net Volume (liters):	40	Q _B :	7
Tuning Frequency (Hz):	52	Port Area (cm ²):	140,0
Frequency (-3 dB) (Hz):	52,7	Port Length (cm):	20,3
Frequency (-10 dB) (Hz):	40,0		