



# 12HPL51 Woofer

High Power Lightweight

### Specifications

Nominal Diameter	320 mm. (12 in.)
Nominal Impedance	8 Ω
Minimum Impedance	5.7 Ω
Power Handling (50-500 Hz)	
Nominal <sup>1</sup>	150 W
Continuous Program <sup>2</sup>	300 W
Sensitivity (1W/1m) <sup>3</sup>	98.5 dB
Frequency Range	50 4000 Hz
Voice Coil Diameter	51 mm. (2 in.)
Winding Material	Aluminium
Former Material	Kapton
Winding Depth	13.5 mm. (1/2 in.)
Magnetic Gap Depth	8 mm. (5/16 in.)
Flux Density	1.1 T

### Thiele & Small Parameters<sup>4</sup>

Fs	51 Hz
Re	5.3 Ω
Qes	0.56
Qms	3.3
Qts	0.48

### Parameters

Vas	96 dm. <sup>3</sup> (3.4 cu. ft.)
Sd	522 cm. <sup>2</sup> (80.9 sq. in.)
η0	2.1 %
X max	± 4 mm.
Mms	39 gr.
Bl	10.8 Tm
Le	1 mH

### Mounting and Shipping informations

Overall Diameter	316 mm. (12.4 in.)
Bolt Circle Diameter	296 mm. (11.6 in.)
Baffle Cutout Diameter	282 mm. (11.1 in.)
Depth	141 mm. (5.5 in.)
Flange and Gasket Thickness	12.5 mm. (1/2 in.)
Net weight	2.1 Kg. (4.6 lb.)
Shipping Weight	3.1 Kg. (6.8 lb.)
Shipping Box	380x380x170 mm. (15x15x6.7 in.)

<sup>1</sup> 2 hours test made with continuous pink noise signal (6 dB crest factor) within the specified range. Power calculated on rated minimum impedance. Loudspeaker mounted in 70 liters (2.5 cu.ft.) bass-reflex box, tuned at 55 Hz.  
<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 2.83V for 8 ohms and 4V for 16 ohms Nominal Impedance. Average SPL from 200 to 4000 Hz.  
<sup>4</sup> Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

