

# 18PS100

## LF Drivers - 18.0 Inches

1400 W continuous program power capacity  
100 mm (4 in) copper voice coil  
30 - 1000 Hz response  
95.5 dB sensitivity  
Double silicone spider with optimized compliance



### Specifications

Nominal diameter	460 mm (18.0 in)
Nominal impedance	8 $\Omega$
Minimum impedance	6.3 $\Omega$
Nominal power handling <sup>1</sup>	700 W
Continuous power handling <sup>2</sup>	1400 W
Sensitivity (1W/1m) <sup>3</sup>	96.0 dB
Frequency range	30 - 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	WP Waterproof Front Side
Recommended enclosure	250.0 dm <sup>3</sup> (8.83 ft <sup>3</sup> )
Recommended tuning	29 Hz

### Parameters<sup>4</sup>

Fs	30 Hz
Re	5.3 $\Omega$
Qes	0.41
Qms	4.6
Qts	0.39
Vas	245.0 dm <sup>3</sup> (8.6 ft <sup>3</sup> )
Sd	1210.0 cm <sup>2</sup> (187.6 in <sup>2</sup> )
$\eta_0$	1.6 %
Xmax	8.0 mm
Xvar	8.0 mm
Mms	202 g
Bl	22.5 Txm

### Parameters

Le	2.1 mH
EBP	73 Hz

### Mounting And Shipping Info

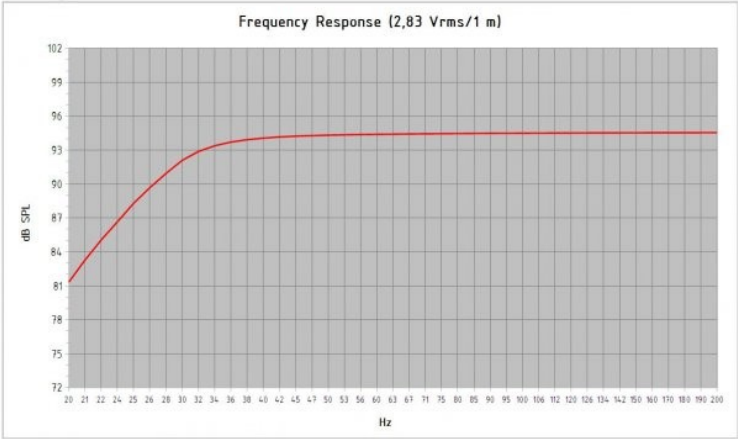
Overall diameter	460 mm (18.0 in)
Bolt circle diameter	440 mm (17.3 in)
Baffle cutout diameter	422.0 mm (16.6 in)
Depth	197 mm (7.75 in)
Flange and gasket thickness	16 mm (0.62 in)
Air volume occupied by driver	9.5 dm <sup>3</sup> (0.33 ft <sup>3</sup> )
Net weight	10.5 kg (23.1 lb)
Shipping units	1
Shipping weight	11.9 kg (26.2 lb)
Shipping box	500x500x250 mm (19.7x19.7x9.8 in)

### Service Kit

RCK18PS1008
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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.



Model:	18 PS 100			
Enclosure Type:	Bass Reflex			
Internal Net Volume (Liters):	250	Port Area (cm²):	339.8	
Tuning Frequency (Hz):	29	Port Length (cm):	30.4	
Frequency (-3 dB) (Hz):	28.1			
Excursion Limited Maximum SPL at 1 meter (dB):	115.5	equal to	156.9	Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB):	122.0	equal to	700.0	Watts (Mid Band Power Rating)