

# 18PS100

## FE SUBWOOFER



**1400 W**  
continuous program  
power capacity

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

Double silicone  
spider with optimized  
compliance

**95.5 dB**  
sensitivity

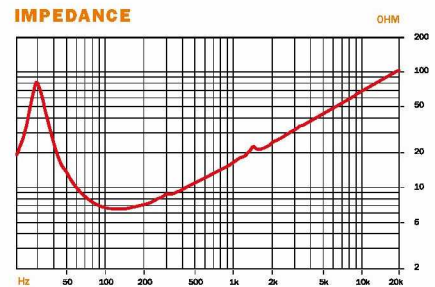
**30 - 1000 Hz**  
response



### SENSITIVITY



### IMPEDANCE



### SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) <sup>1</sup>	700 W
Continuous Program <sup>2</sup>	1400 W
Sensitivity (1W/1m) <sup>3</sup>	95.5 dB
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	100 mm (4 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
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

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

Fs	30 Hz
Re	5.3 Ω
Qes	0.41
Qms	4.6
Qts	0.39
Vas	245 dm <sup>3</sup> (8.6 ft <sup>3</sup> )
Sd	1210 cm <sup>2</sup> (187.6 in <sup>2</sup> )
η <sub>0</sub>	1.6 %
X max	± 8 mm
X var	± 8 mm
Mms	202 g
Bl	22.5 T·m
Le	2.1 mH
EBP	73 Hz

### MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	197 mm (7.75 in)
Flange and Gasket Thickness	16 mm (5/8 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 Weight	11.9 kg (26.2 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18PS100-8

Also available in 4 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 500 Hz.

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