

18SW100

LF Drivers - 18.0 Inches

3000 W continuous program power capacity
100 mm (4 in) split winding copper voice coil
35 - 1000 Hz response
97 dB sensitivity
57 mm peak-to-peak excursion before damage
Double silicone spider with optimized compliance
Ventilated voice coil gap for reduced power compression
Aluminium demodulating ring for very low distortion



Specifications

Nominal diameter	460 mm (18.0 in)
Nominal impedance	8 Ω
Minimum impedance	6.5 Ω
Nominal power handling ¹	1500 W
Continuous power handling ²	3000 W
Sensitivity (1W/1m) ³	97.0 dB
Frequency range	35 - 1000 Hz
Voice coil diameter	100 mm (4.0 in)
Winding material	Copper
Former material	Glass Fibre
Winding depth	32 mm (1.26 in)
Magnetic gap depth	14 mm (0.55 in)
Flux density	1.15 T

Design

Surround shape	Triple Roll
Cone shape	Radial
Magnet material	Neodymium Inside Slug

Design

Spider	Double Silicone
Pole design	T-Pole
Woofer cone treatment	TWP Waterproof Both Sides
Recommended enclosure	200.0 dm ³ (7.06 ft ³)
Recommended tuning	33 Hz

Parameters⁴

Fs	35 Hz
Re	5.3 Ω
Qes	0.4
Qms	5.9
Qts	0.38
Vas	180.0 dm ³ (6.3 ft ³)
Sd	1210.0 cm ² (187.6 in ²)
η_0	1.9 %
Xmax	12.5 mm
Xvar	16.0 mm
Mms	234 g
Bl	26.1 Txm

Parameters

Le	2.2 mH
EBP	87 Hz

Mounting And Shipping Info

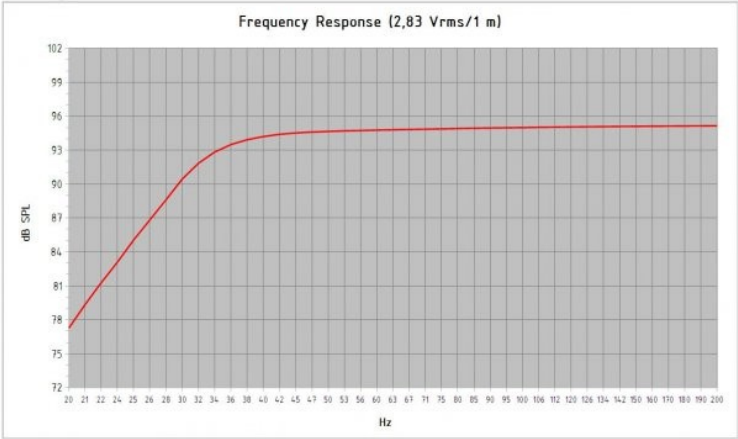
Overall diameter	460 mm (18.0 in)
Bolt circle diameter	443 mm (17.44 in)
Baffle cutout diameter	422.0 mm (16.6 in)
Depth	239 mm (9.41 in)
Flange and gasket thickness	16 mm (0.63 in)
Air volume occupied by driver	10.0 dm ³ (0.35 ft ³)
Net weight	10.0 kg (22.0 lb)
Shipping units	1
Shipping weight	11.5 kg (25.3 lb)
Shipping box	500x500x250 mm (19.7x19.7x9.8 in)

Service Kit

RCK18SW1008

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 SIW 100		
Enclosure Type:	Bass Reflex		
Internal Net Volume (Liters):	200		
Tuning Frequency (Hz):	33	Port Area (cm²):	339.6
Frequency (-3 dB) (Hz):	32.7	Port Length (cm):	26.7
Excursion Limited Maximum SPL at 1 meter (dB):	123.6	equal to	844.5 Watts (Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB):	126.1	equal to	1500.0 Watts (Mid Band Power Rating)