

ROSSO-18SW650

AUDIENCE

18" - Subwoofer - 650W - 99dB

- Proprietary cone paper material with silk cotton tree
- Minimum damping fiber glass voice coil former
- 4" voice coil with APC (Advanced Polymer Coating)
- Ribbon voice coil wire for high efficiency
- Cast aluminium chassis
- Vented pole piece for reduced compression
- Triple roll surround for extended excursion



Dimensions & Weight

Overall Diameter	470 mm (18.5 in)
Bolt Circle Diameter	455 mm (17.9 in)
Baffle Cutout Diameter	426 mm (16.77 in)
Mounting Depth	195.5 mm (7.69 in)
Flange and Gasket Thickness	13.5 mm (0.53 in)
Net Weight	11.65 Kg (25.68 lb)
Shipping Box	504 x 504 x 248 mm (19.84 x 19.84 x 9.76 in)
Gross Weight	14.2 Kg (31.30 lb)

Recone Kit

1P000OPSB022

NOTES :

- (1) AES standard, test mode with continuous pink noise signal (6 dB crest factor; 2 hours) within the F_0 to $10F_0$ power calculated on rated nominal impedance. Loudspeaker in free air
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3) $X_{max} = ((\text{Winding depth} - \text{magnetic gap depth})/2) + (\text{magnetic gap depth}/3)$
- (4) Maximum excursion (p-p) before permanent damage
- (5) T/S parameters measured on drive units that are broken in using Klippel LPM Measurement System

Specs :

Nominal Impedance	8 Ohm
Minimum Impedance	5 Ohm
AES Power Handling (1)	650 W
Maximum Power Handling (2)	1300 W
Sensitivity (1W/1m)	99 dB
Frequency Range	31 - 3200 Hz
Voice Coil Diameter	99.2 mm (4 in)
Winding Material	Flat copper clad aluminium
Former Material	Till
Winding Depth	25.7 mm
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	1.16 T
Magnet	Ferrite
Basket Material	Aluminium die cast
Demodulation	-
Cone Surround	Triple roll
NET Air Volume filled by driver	8.08
Spider Profile	Single constant height waves
Weather Resistant	Yes

Thiele Small Parameters

F_s	31 Hz
R_e	5 Ohm
Q_{es}	0.44
Q_{ms}	8.32
Q_{ts}	0.41
V_{as}	304.3 liters
S_d	1244.1 cm ²
X_{max} (3)	11.18 mm
X_{damage} (4)	22 mm
M_{ms}	189.7 g
Bl	20.6 Tm
L_e	1.4 mH
C_{ms}	0.14 mm/N
R_{ms}	4.44 Kg/s
η_{Zero}	2 %
EBP	70

