

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 back plate 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

N/A

NOTES :

- (1) AES standard, test mode with continuous pink noise signal (6 dB crest factor; 2 hours) within the Fo to 10Fo 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

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	Copper clad aluminium wire
Former Material	TiIil
Winding Depth	26
Magnetic Gap Depth	10 (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

Fs	31 Hz
Re	5.0 Ohm
Qes	0.39
Qms	8.56
Qts	0.38
Vas	327.2 liters
Sd	1244 cm ³
Xmax (3)	11.18 mm
Xdamage (4)	22 mm
Mms	177.3 gr
BL	20.8 N/A
Le	1.05 mH
Cms	0.15 mm/N
Rms	4.0 Kg/s
Eta Zero	2.33 %
EBP	79

