

# RS12-100

☀ 12 inch ☀ 500 Watts  
☀ 94 dB ☀ 39 ~ 450 Hz



## KEY FEATURES:

- ① 1000W continuous program power capacity
- ② 94dB sensitivity, 1w/1m
- ③ 39~450Hz frequency response range
- ④ 100mm(4") high temperature inside/outside copper voice coil
- ⑤ Heavy duty magnet
- ⑥ Rubber edge
- ⑦ Non-pressed paper cone
- ⑧ Ideal for compact bass-reflex subwoofer application

## GENERAL SPECIFICATIONS

Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling <sup>1</sup>	500 Watts
Program Power <sup>2</sup>	1000 Watts
Sensitivity(1w/1m) <sup>3</sup>	94 dB
Frequency Range <sup>4</sup>	39 ~ 450 Hz
Minimum Impedance(Zmin)	7.5 ohm
Voice Coil Diameter	100mm /4inch
Voice Coil Material	Copper
Former Material	Fiber glass
Voice Coil Winding Depth	30 mm
Number of layers	2(Inside/outside)
Magnet gap depth	12 mm
Basket	Cast Aluminum
Flux Density	1.0T
Magnet Outer Diameter / Wgt	220mm / 125 oz

## THIELE - SMALL PARAMETERS<sup>5</sup>

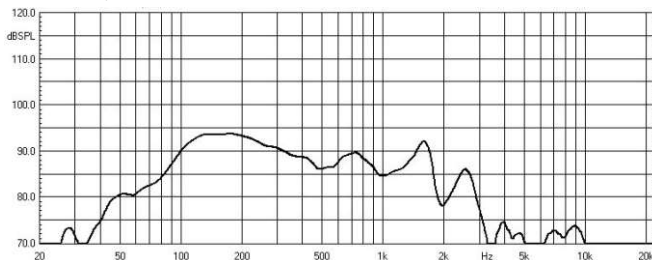
Resonance frequency	Fs	43 Hz
DC resistance	Re	5.4 ohm
Mechanical factor	Qms	5.8
Electrical factor	Qes	0.26
Total factor	Qts	0.25
Mechanical compliance	Cms	0.11 mm/N
of suspension losses	Rms	6.1mech-ohm
Effective Moving Mass	Mms	132 g
Half-space efficiency	Eff	1.0%
BL Factor	BL	26.8 T.m
Equivalent Cas air load	Vas	37 liters
Effective piston area	Sd	0.0499 m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	11 mm
Voice coil inductance	Le1K	2.5 mH
Efficiency Bandwidth Product	EBP	164

## MOUNTING INFORMATION

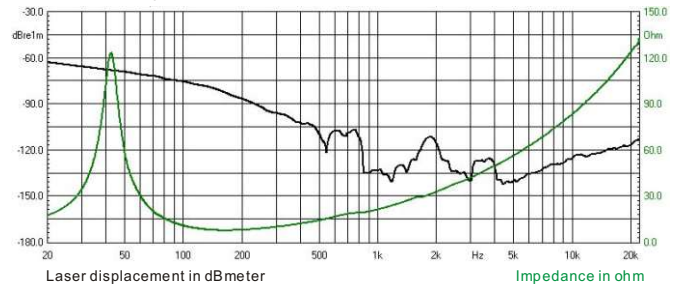
Overall Diameter	313 mm
Bolt Circle Diameter	294 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	285 mm
Overall Depth	130 mm
Net Weight	11.2 kg
Shipping Weight	12 kg
Shipping Box	345x345x170mm



Frequency response measured in a closed enclosure of 600L in an anechoic chamber



Impedance magnitude curve measured in free air



## NOTES:

1. AES standard
2. Program Power is defined as 3 dB greater than the nominal power handling.
3. Sensitivity is measured at 1W input on rated impedance at 1m on axis.
4. Frequency range is defined as the band of frequencies delineated by the lower and upper limits where the output level drops by 10dB below the rated sensitivity.
5. T/S parameters measured with laser system without preconditioning test at 23 Celsius degree environment.
6. The maximum linear excursion is calculated as:  $(Hvc-Hg)/2+Hg/4$  where Hvc is the voice coil depth and Hg is the gap depth.