

# THE SOVEREIGN SERIES SOVEREIGN 6-100

BASS / MID RANGE DRIVER



**6" / 152.4 mm**  
CHASSIS DIAMETER

**100 w (A.E.S.)**  
POWER HANDLING

**93 dB**  
SENSITIVITY (1w / 1m)

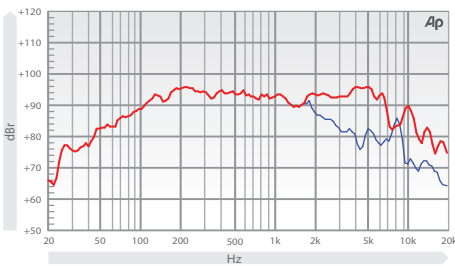
**60 Hz - 7 kHz**  
FREQUENCY RESPONSE

**1.5" / 38.1 mm**  
Copper Voice Coil

- Medium-power driver ideal for use in pro-sound applications.
- Works well as a mid range driver in a small sealed box or as a mid/ bass driver in vented boxes.
- Optimised cone pulp offering increased strength, durability and performance.

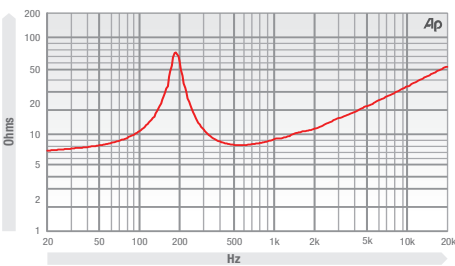
THE SOVEREIGN SERIES

## FREQUENCY RESPONSE DATA\*

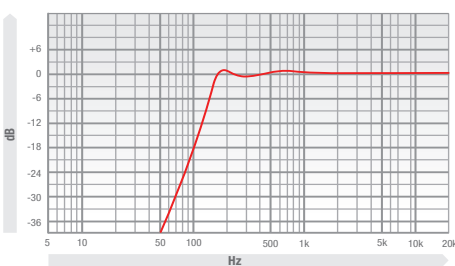


\* Half space response measured in a 975 litre sealed box.

## IMPEDANCE



## PREDICTED BASS RESPONSE



\*\* Normalised bass response in 15 litre tuned to 70 Hz

## ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	6" / 152.4 mm
Impedance	8 Ω
Power Handling	100 w (A.E.S.)
Peak Power (6dB Crest Factor)	400 w (A.E.S.)
Usable Frequency Range -6dB	60 Hz - 7 kHz
Sensitivity (1 w - 1 m)	93 dB
Moving Mass inc. Air Load	23.94 grams
Minimum Impedance Zmin	7 Ω
Effective Piston Diameter	5.15" / 130.81 mm
Peak Displacement Volume of Cone Vd	0.03 litres
Magnetic Gap Depth	0.23" / 6 mm
Flux Density	1.0 Tesla
Coil Winding Height	0.39" / 10 mm
Voice Coil Diameter	1.5" / 38.1 mm

## MOUNTING / SHIPPING INFORMATION

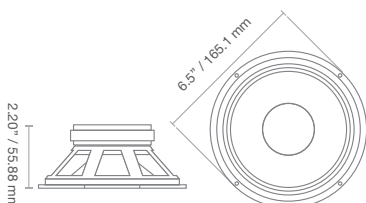
Overall Diameter	6.5" / 165.1 mm
Width Across Flats	N/A
Flange Height	0.27" / 6.9 mm
Baffle Hole Diameter F/M	5.78" / 146.81 mm
Baffle Hole Diameter R/M	5.78" / 146.81 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 5.9 mm on 6.14" / 155.96 mm PCD
Depth	2.20" / 55.88 mm
Weight	3.63 lb / 1.65 kg
Recommended Enclosure Volume	0.35 - 0.70 cu ft / 10 - 20 litres
Shipping Weight	4.29 lb / 1.95 kg
Packing Carton Dimensions	105 x 205 x 205 mm

## THIELE SMALL PARAMETERS

FS Hz	115 Hz
RE Ohms	6.9 Ω
Qms	12.8
Qes	0.67
Qts	0.64
Vas Ltr	2.2 litres
Vd litres	0.032 litres
CMS (mm/N)	0.08 mm/N
BL T/m	13.25 T/m
Mms (grams)	23.94 grams
Xmax (mm)	2.5 mm
Sd (cm²)	139.2 cm²
Efficiency %	0.50%
Le (1k Hz)	1.15 mH

## MATERIALS OF CONSTRUCTION

Former Material	1.0 Tesla
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive voltage at red terminal causes forward motion of cone



- Please enquire about alternative impedances.
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave. Driver mounted in free air, test signal applied at rated power for 2 hours.
- Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.
- Technical Schematic provided for illustrative purposes only and is not indicative of the actual product.

SOVEREIGN 6-100

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