

SOVEREIGN 6-100

BASS/ MID RANGE DRIVER

6" / 152.4 mm
CHASSIS DIAMETER

100 W (A.E.S.)
AES POWER HANDLING

60 Hz - 7 kHz
FREQUENCY RESPONSE

1.5" / 38.1 mm
COPPER VOICE COIL

93 dB
SENSITIVITY (1W/ 1m)

2.5 mm Xmax

- 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.

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	6" / 152.4 mm
Impedance	8 Ohm
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
Magnet Weight	20 oz
Magnetic Gap Depth	0.23" / 6.00 mm
Flux Density	1 Tesla
Coil Winding Height	0.39" / 10.00 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
Outer Fixing Holes	4x Ø 5.9 mm on 6.14" / 155.96 mm PCD
Inner Fixing Holes	N/A
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	(W) 205 (D) 205 (H) 135 mm

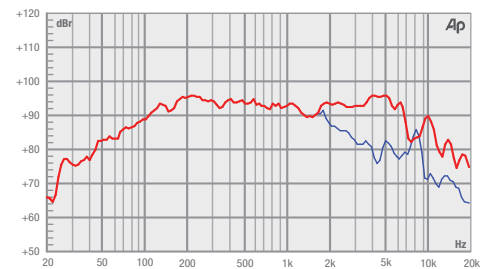
THIELE SMALL PARAMETERS

FS Hz	115 Hz
RE Ohms	6.9 Ω
Qms	12.800
Qes	0.670
Qts	0.640
Vas Ltr	2.20 Litres
Vd Litres	0.032 Litres
CMS (mm/N)	0.080 mm/N
BL T/m	13.25 T/m
Mms (grms)	23.94 grams
Xmax (mm)	2.5 mm
Sd (cm²)	139.2 cm²
Efficiency %	0.500%
Le (1k Hz)	1.15 mH
EBP	171.64 Hz

MATERIALS OF CONSTRUCTION

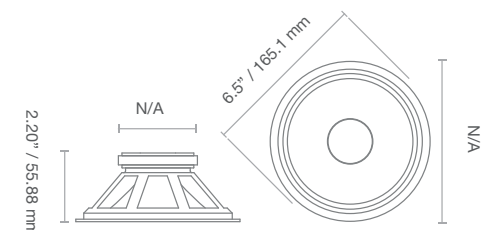
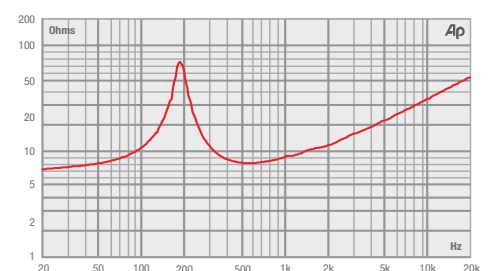
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive voltage at red terminal causes forward motion of cone

FREQUENCY RESPONSE DATA*



† Half space response measured in a 975 Litre sealed box.

IMPEDANCE



* 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.