

THE SOVEREIGN SERIES SOVEREIGN 10-300

BASS / MID RANGE DRIVER



10" / 254 mm
CHASSIS DIAMETER

300 w (A.E.S.)
POWER HANDLING

97.5 dB
SENSITIVITY (1w / 1m)

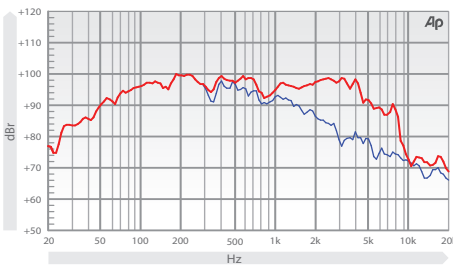
45 Hz - 5 kHz
FREQUENCY RESPONSE

2.5" / 63.5 mm
Copper - Inside / Outside
Windings Voice Coil

- Intended for use in 2 way ported enclosures such as the classic bass driver plus horn tweeter or compression driver format.
- Exhibits a smooth frequency response to give a balanced tonal characteristic when properly matched to appropriate high-frequency drivers.
- Designed for use in 15-40 Litre ported enclosures.
- Inside/ outside windings 2.5" voice coil.
- Optimised cone pulp offering increased strength, durability and performance.

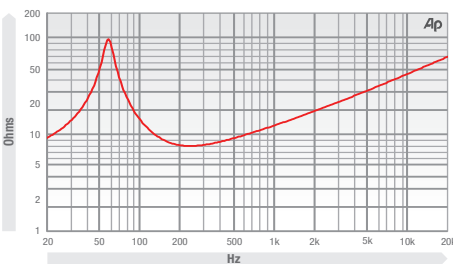
THE SOVEREIGN SERIES

FREQUENCY RESPONSE DATA*

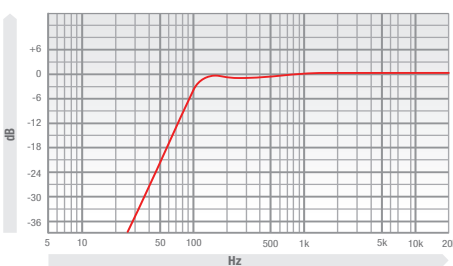


* Half space response measured in a 975 litre sealed box.

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass response in 25 litre tuned to 50 Hz

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	10" / 254 mm
Impedance	4 / 8 / 16 Ω
Power Handling	300 w (A.E.S.)
Peak Power (6dB Crest Factor)	1200 w (A.E.S.)
Usable Frequency Range -6dB	45 Hz - 5 kHz
Sensitivity (1 w - 1 m)	97.5 dB
Moving Mass inc. Air Load	37 grams
Minimum Impedance Zmin	6.8 Ω
Effective Piston Diameter	8.46" / 214.88 mm
Peak Displacement Volume of Cone Vd	0.2 litres
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.0 Tesla
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	2.5" / 63.5 mm

THIELE SMALL PARAMETERS

FS Hz	58 Hz
RE Ohms	5.7 Ω
Qms	6.08
Qes	0.33
Qts	0.313
Vas Ltr	41 litres
Vd litres	0.208 litres
CMS (mm/N)	0.211 mm/N
BL T/m	15.3 T/m
Mms (grams)	37 grams
Xmax (mm)	5.5 mm
Sd (cm²)	378 cm²
Efficiency %	2.36%
Le (1k Hz)	1.68 mH

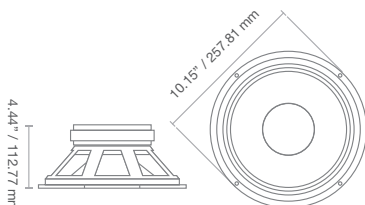
MOUNTING / SHIPPING INFORMATION

Overall Diameter	10.15" / 257.81 mm
Width Across Flats	N/A
Flange Height	0.27" / 6.9 mm
Baffle Hole Diameter F/M	9.21" / 233.93 mm
Baffle Hole Diameter R/M	9.21" / 233.93 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 6.5 mm on 9.72" / 246.88 mm PCD
Depth	4.44" / 112.77 mm
Weight	10.57 lb / 4.8 kg
Recommended Enclosure Volume	0.88 - 1.76 cu ft / 25 - 50 litres
Shipping Weight	10.57 lb / 4.8 kg
Packing Carton Dimensions	150 x 280 x 280 mm

MATERIALS OF CONSTRUCTION

Former Material	1.0 Tesla
Voice Coil	Copper - Inside / Outside Windings
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive voltage at red terminal causes forward motion of cone

SOVEREIGN 10-300



- Please enquire about alternative impedances.
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 45 Hz and 450 Hz. Driver mounted in free air, test signal applied at rated power for two 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.