

THE SOVEREIGN SERIES SOVEREIGN 12-500LF

BASS DRIVER



12" / 304.8 mm
CHASSIS DIAMETER

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

95 dB
SENSITIVITY (1w / 1m)

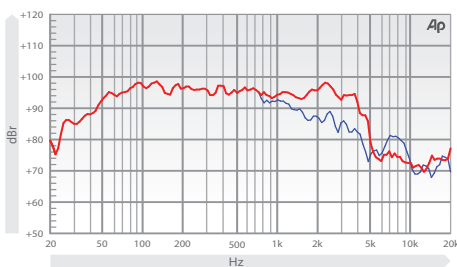
38 Hz - 5 kHz
FREQUENCY RESPONSE

2.5" / 63.5 mm
Copper Voice Coil

- High-power bass driver ideally suited for use in 2 way ported enclosures.
- Optimised cone pulp offering increased strength, durability and performance.

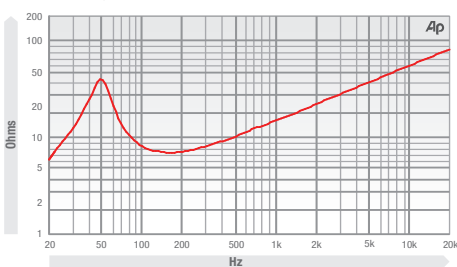
THE SOVEREIGN SERIES

FREQUENCY RESPONSE DATA*

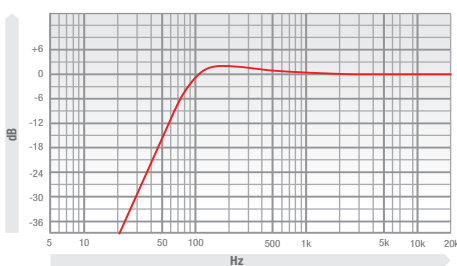


* Half space response measured in a 975 litre sealed box.

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass response in 75 litre tuned to 45 Hz

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	8 Ω
Power Handling	500 w (A.E.S.)
Peak Power (6dB Crest Factor)	2000 w (A.E.S.)
Usable Frequency Range -6dB	38 Hz - 5 kHz
Sensitivity (1 w - 1 m)	95 dB
Moving Mass inc. Air Load	75 grams
Minimum Impedance Zmin	7.4 Ω
Effective Piston Diameter	10.67" / 271.01 mm
Peak Displacement Volume of Cone Vd	0.3 litres
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	0.97 Tesla
Coil Winding Height	0.74" / 19 mm
Voice Coil Diameter	2.5" / 63.5 mm

THIELE SMALL PARAMETERS

FS Hz	50 Hz
RE Ohms	5.9 Ω
Qms	7.5
Qes	0.53
Qts	0.51
Vas Ltr	66 litres
Vd litres	0.298 litres
CMS (mm/N)	0.14 mm/N
BL T/m	16.37 T/m
Mms (grams)	75 grams
Xmax (mm)	5.5 mm
Sd (cm²)	576.1 cm²
Efficiency %	1.50%
Le (1k Hz)	2.36 mH

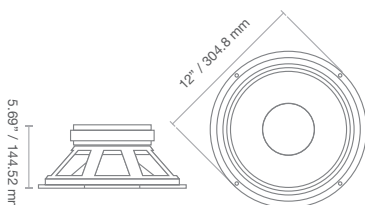
MOUNTING / SHIPPING INFORMATION

Overall Diameter	12" / 304.8 mm
Width Across Flats	N/A
Flange Height	0.27" / 6.9 mm
Baffle Hole Diameter F/M	11.25" / 285.75 mm
Baffle Hole Diameter R/M	11.25" / 285.75 mm
Gasket Supplied	Front & Rear
Fixing Holes	8x 7.0 mm on 11.75" / 298 mm PCD
Depth	5.69" / 144.52 mm
Weight	11.02 lb / 5.0 kg
Recommended Enclosure Volume	1.05 - 2.64 cu ft / 30 - 75 litres
Shipping Weight	12.89 lb / 5.85 kg
Packing Carton Dimensions	165 x 330 x 330 mm

MATERIALS OF CONSTRUCTION

Former Material	0.97 Tesla
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Straight Polycellulose Ribbed Cone
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 12-500LF



- Please enquire about alternative impedances.
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 40 Hz and 400 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.