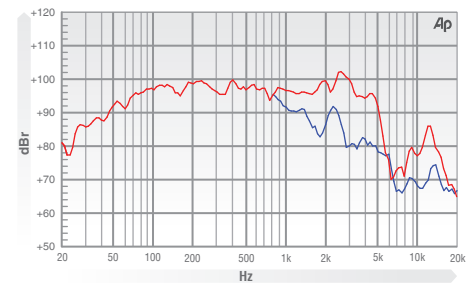




SOVEREIGN PRO 12-500

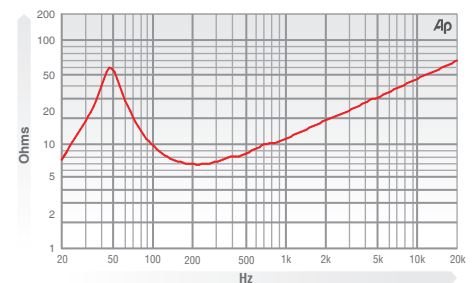
The Sovereign Pro 12-500 is intended for use in two-way ported enclosures. The driver features a rugged die cast chassis combined with long throw motor system and high linearity suspension allowing solid bass reproduction at high power levels. The driver exhibits a smooth frequency response that delivers a balanced tonal characteristic when properly matched with the appropriate high-frequency device. The Pro 12-500 is intended for use in ported enclosures with volumes of 50 to 75 litres and features a 3 inch 'sandwich' inside and outside windings voice coil capable of delivering 500 watts power. The driver has an average sensitivity of 97.5 dB across its working band width.

FREQUENCY RESPONSE DATA*

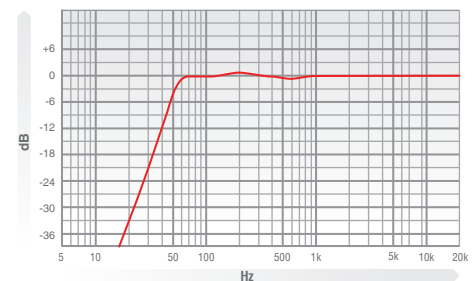


* Half space response measured in a 975 litre sealed box

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalized bass response in 75 litre tuned to 55Hz

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12"
Impedance	8 Ω
Power Handling	500 w (EIA 426A)
Peak Power (6dB Crest Factor)	1200 w (EIA 426A)
Usable Frequency Range -6dB	45 Hz - 4.5 kHz
Sensitivity (1 w - 1 m)	97.5 dB
Moving Mass inc. Air Load	43 grams
Minimum Impedance Zmin	6.84 Ω
Effective Piston Diameter	10.31" / 262 mm
Peak Displacement Volume of Cone Vd	0.24 litres
Magnet Weight	80 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	3" / 76.2 mm

THIELE SMALL PARAMETERS

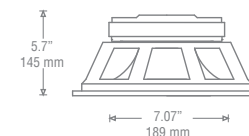
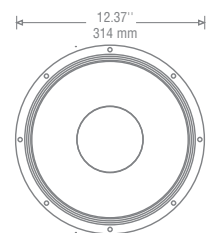
FS Hz	43 Hz
RE Ohms	5.6 Ω
Qms	3.04
Qes	0.35
Qts	0.314
Vas Ltr	107
Vd litres	0.339
CMS (mm/N)	0.236
BL T/m	16
Mms (grms)	58
Xmax (mm)	6
Sd (cm ²)	565
Efficiency %	2.34
Le (1k Hz)	1.6 mH

MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Aluminium 'sandwich' inside and outside windings
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll Liner
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive Voltage at Red Terminal Causes Forward Motion of Cone

MOUNTING / SHIPPING INFORMATION

Overall Diameter	12.36" / 314 mm
Width Across Flats	N/A
Flange Height	0.339" / 10 mm
Baffle Hole Diameter F/M	11.13" / 287 mm
Baffle Hole Diameter R/M	N/A
Gasket Supplied	Front & Rear
Fixing Holes	8x 7.0 mm on 11.5" / 294 mm pcd
Depth	5.7" / 145 mm
Weight	16.5 lb / 7.5 kg
Recommended Enclosure Volume	1.23 - 2.64 cu ft / 35 - 75 litres
Shipping Weight	17.63 lb / 8.0 kg
Packing Carton Dimensions	165 x 330 x 330 mm



- Please enquire about alternative impedances.
- EIA 426A. power handling test. Pink noise bandpass filtered at 12 dB per octave. Driver mounted in free air, test signal applied at rated power for 8 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.