



THE NEODYMIUM SERIES SOVEREIGN PRO 12-350N

MID BASS / MID RANGE DRIVER

12" / 304.8 mm
CHASSIS DIAMETER

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

97.5 dB
SENSITIVITY (1w / 1m)

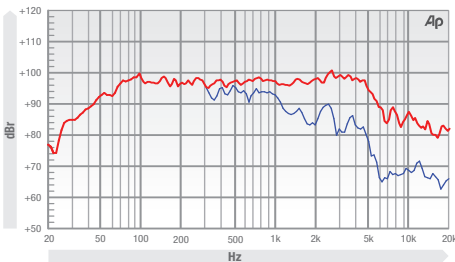
50 Hz - 4.5 kHz
FREQUENCY RESPONSE

2.5" / 63.5 mm
ALUMINIUM - INSIDE / OUTSIDE
WINDINGS VOICE COIL

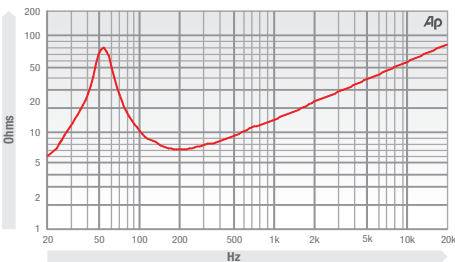
The Sovereign Pro 12-350N is intended for use as a medium output mid bass driver in ported enclosures and line array systems. The 2.5 inch voice coil is driven by a neodymium non inductive motor system which dramatically reduces third-harmonic and intermodulation distortion. The cone membrane is much stronger and more durable than conventional paper pulps and allows the driver to combine high-sensitivity with the excellent structural integrity required to produce undistorted midband frequency output up to its rated power handling of 350 Watts (A.E.S) continuous, with peak power handling in excess of 1400 Watts. The driver exhibits an average sensitivity of 97.5 dB and is best used in ported enclosures of 25 to 80 litres.

- Lightweight neodymium magnet assembly.
- Weighs only 3.7 kg.
- Ideal for line array applications.
- UK manufactured cone with optimised pulp offering increased strength, durability and performance.

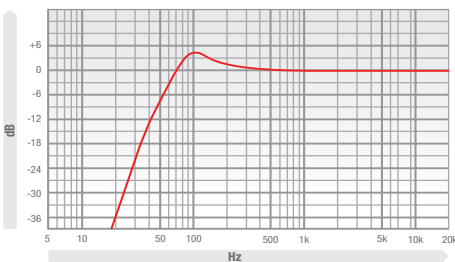
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	8Ω
Power Handling	350 w (A.E.S.)
Peak Power (6dB Crest Factor)	1400 w (A.E.S.)
Usable Frequency Range -6dB	50 Hz - 4.5 kHz
Sensitivity (1 w - 1 m)	97.5 dB
Moving Mass inc. Air Load	45 grams
Minimum Impedance Zmin	6.84Ω
Effective Piston Diameter	10.31" / 261.87 mm
Peak Displacement Volume of Cone Vd	0.24 litres
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1 Tesla
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	2.5" / 63.5 mm

MOUNTING / SHIPPING INFORMATION

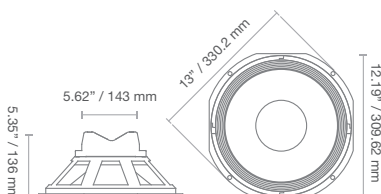
Overall Diameter	13" / 330.2 mm
Width Across Flats	12.19" / 309.62 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	11.03" / 280.16 mm
Baffle Hole Diameter R/M	10.13" / 257.30 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 0.218" diam on 12.5 PCD 4x 5.5 mm diam on 317.5 PCD
Depth	5.35" / 136 mm
Weight	8.15 lb / 3.7 kg
Recommended Enclosure Volume	0.88 - 2.83 cu ft / 25 - 80 litres
Shipping Weight	9.4 lb / 4.26 kg
Packing Carton Dimensions	340 x 340 x 222 mm

THIELE SMALL PARAMETERS

FS Hz	55 Hz
RE Ohms	5.75Ω
Qms	3.9
Qes	0.71
Qts	0.6
Vas Ltr	77 litres
Vd litres	0.24 litres
CMS (mm/N)	0.186 mm/N
BL T/m	11.5 T/m
Mms (grms)	45 grams
Xmax (mm)	4.5 mm
Sd (cm²)	540 cm²
Efficiency %	1.89%
Le (1k Hz)	1.64 mH

MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Aluminium - Inside / Outside Windings
Magnet Material	Neodymium
Chassis	Die-cast Aluminium
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll P/C
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
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 with cutoff frequencies of 50 Hz and 500 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.