

SOVEREIGN PRO 12-350N

MID BASS/ MID RANGE DRIVER



12" / 304.8 mm
CHASSIS DIAMETER

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

50 Hz - 4.5 kHz
FREQUENCY RESPONSE

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

97.5 dB
SENSITIVITY (1W/ 1m)

4.5 mm Xmax
MAXIMUM LINEAR
EXCURSION

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.

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	8 Ohm
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	6.84 Ω
Effective Piston Diameter	10.31" / 261.87 mm
Magnetic Gap Depth	0.39" / 10.00 mm
Flux Density	1 Tesla
Coil Winding Height	0.70" / 18.00 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
Outer Fixing Holes	4x Ø 0.218" on 12.5" PCD / 4x Ø 5.5 mm on 317.5 mm PCD
Inner Fixing Holes	N/A
Depth	5.35" / 136.00 mm
Weight	8.15 lb / 3.70 kg
Recommended Enclosure Volume	0.88 - 2.83 cu ft / 25 - 80 Litres
Shipping Weight	9.40 lb / 4.26 kg
Packing Carton Dimensions	(W) 330 (D) 330 (H) 170 mm

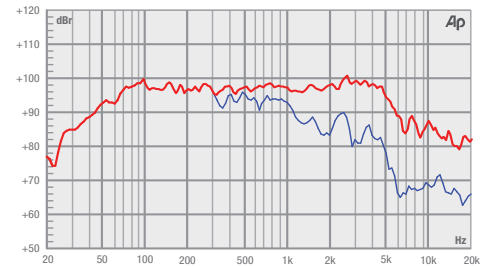
THIELE SMALL PARAMETERS

FS Hz	55 Hz
RE Ohms	5.75 Ω
Qms	3.900
Qes	0.710
Qts	0.600
Vas Ltr	77.00 Litres
Vd Litres	0.240 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 %	1.890%
Le (1k Hz)	1.64 mH
EBP	77.46 Hz

MATERIALS OF CONSTRUCTION

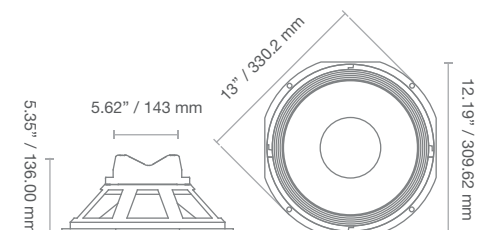
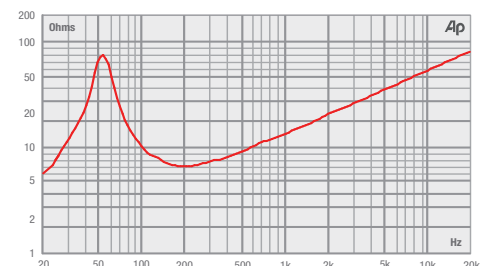
Former Material	Glass Fibre
Voice Coil	Aluminium - Inside/ Outside Windings
Magnet Material	Neodymium
Chassis	Die-cast Aluminium
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll P/C
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

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 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.