

# SOVEREIGN PRO 12-300

### BASS DRIVER

<b>12" / 304.8 mm</b> CHASSIS DIAMETER	<b>300 W (A.E.S.)</b> AES POWER HANDLING	<b>45 Hz - 4.5 kHz</b> FREQUENCY RESPONSE	<b>2.5" / 63.5 mm</b> COPPER - INSIDE/ OUTSIDE WINDINGS VOICE COIL	<b>97.5 dB</b> SENSITIVITY (1W/ 1m)	<b>4.5 mm Xmax</b> MAXIMUM LINEAR EXCURSION
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- Highly versatile in 2-way ported enclosures.
- Smooth extended frequency response.
- Good bass and mid range performance.
- UK manufactured cone with optimised pulp offering increased strength, durability and performance.

The Sovereign Pro 12-300 is intended for use in two-way ported enclosures, such as the classic bass driver plus horn tweeter or compression driver format. The unit features die-cast chassis with long throw motor system and high linearity suspension allowing solid bass reproduction at high-power levels. The driver exhibits smooth frequency response to give a balanced tonal characteristic when properly matched to appropriate high-frequency drivers. The Sovereign Pro 12-300 is designed for use in 25 to 80 Litre ported enclosures and features a 2.5 inch voice coil, 300 Watt power handling and 97.5 dB sensitivity.

### ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	4 Ohm / 8 Ohm / 16 Ohm
Power Handling	300 W (A.E.S.)
Peak Power (6dB Crest Factor)	1200 W (A.E.S.)
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" / 261.87 mm
Magnet Weight	56 oz
Magnetic Gap Depth	0.39" / 10.00 mm
Flux Density	1.1 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	5.33" / 135.50 mm
Weight	11.46 lb / 5.20 kg
Recommended Enclosure Volume	0.88 - 2.83 cu ft / 25 - 80 Litres
Shipping Weight	12.89 lb / 5.85 kg
Packing Carton Dimensions	(W) 330 (D) 330 (H) 170 mm

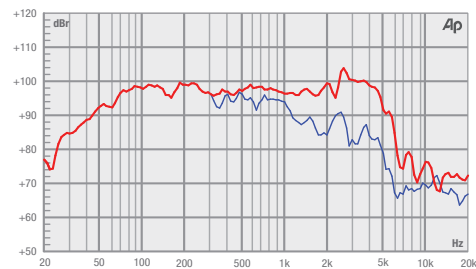
### THIELE SMALL PARAMETERS

FS Hz	46 Hz
RE Ohms	5.75 Ω
Qms	5.200
Qes	0.375
Qts	0.350
Vas Ltr	114.00 Litres
Vd Litres	0.240 Litres
CMS (mm/N)	0.278 mm/N
BL T/m	14.8 T/m
Mms (grms)	43 grams
Xmax (mm)	4.5 mm
Sd (cm²)	540 cm²
Efficiency %	2.890%
Le (1k Hz)	1.64 mH
EBP	122.67 Hz

### MATERIALS OF CONSTRUCTION

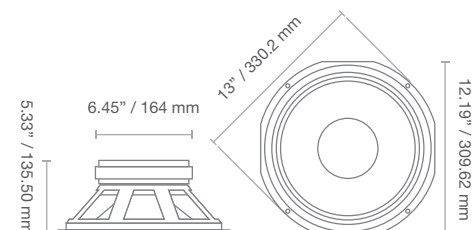
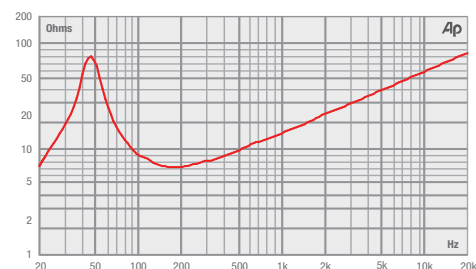
Former Material	Glass Fibre
Voice Coil	Copper - Inside/ Outside Windings
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Poly Cotton
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage 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 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.