



SOVEREIGN 12-300

BASS/ MID RANGE DRIVER

12" / 304.8 mm CHASSIS DIAMETER	300 W (A.E.S.) AES POWER HANDLING	45 Hz - 4.5 kHz FREQUENCY RESPONSE	2.5" / 63.5 mm COPPER VOICE COIL	97.5 dB SENSITIVITY (1W/ 1m)	4.5 mm Xmax
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- Medium-power driver.
- For use as a bass/ mid woofer in medium sized vented enclosures or as a mid in small sealed designs.
- Optimised cone pulp offering increased strength, durability and performance.

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	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
Outer Fixing Holes	8x Ø 7.0 mm on 11.75" / 298 mm PCD
Inner Fixing Holes	N/A
Depth	5.43" / 137.92 mm
Weight	11.02 lb / 5.00 kg
Recommended Enclosure Volume	1.05 - 2.64 cu ft / 30 - 75 Litres
Shipping Weight	12.89 lb / 5.85 kg
Packing Carton Dimensions	(W) 330 (D) 330 (H) 170 mm

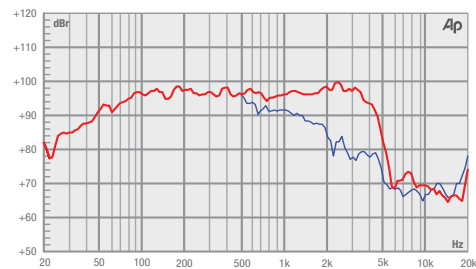
THIELE SMALL PARAMETERS

FS Hz	46 Hz
RE Ohms	5.75 Ω
Qms	5.200
Qes	0.375
Qts	0.350
Vas Ltr	110.00 Litres
Vd Litres	0.240 Litres
CMS (mm/N)	0.278 mm/N
BL T/m	14 T/m
Mms (grms)	43 grams
Xmax (mm)	4.5 mm
Sd (cm²)	530 cm²
Efficiency %	2.750%
Le (1k Hz)	1.64 mH
EBP	122.67 Hz

MATERIALS OF CONSTRUCTION

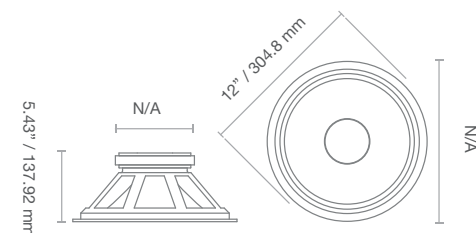
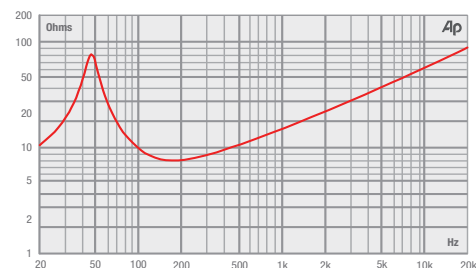
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive voltage at red terminal causes forward motion of cone

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.