



THE SOVEREIGN SERIES SOVEREIGN 12-300

BASS / MID RANGE DRIVER

12" / 304.8 mm
CHASSIS DIAMETER

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

97.5 dB
SENSITIVITY (1w / 1m)

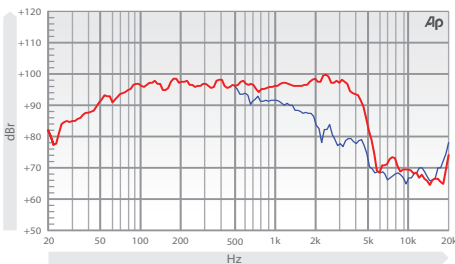
45 Hz - 4.5 kHz
FREQUENCY RESPONSE

2.5" / 63.5 mm
Copper Voice Coil

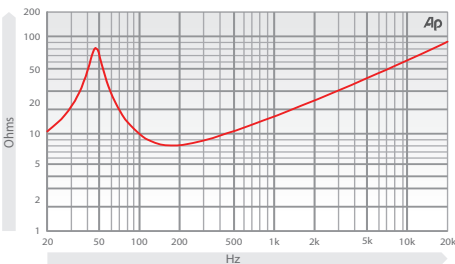
- Medium-power driver.
- For use as a bass/ mid woofer in medium sized vented enclosures or as a mid in small sealed designs.
- Optimised cone pulp offering increased strength, durability and performance.

THE SOVEREIGN SERIES

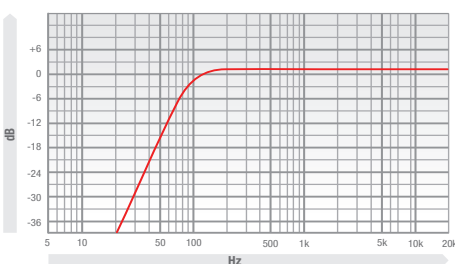
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	4 / 8 / 16 Ω
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
Peak Displacement Volume of Cone Vd	0.24 litres
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.70" / 18mm
Voice Coil Diameter	2.5" / 63.5 mm

THIELE SMALL PARAMETERS

FS Hz	46 Hz
RE Ohms	5.75 Ω
Qms	5.2
Qes	0.375
Qts	0.35
Vas Ltr	110 litres
Vd litres	0.24 litres
CMS (mm/N)	0.278 mm/N
BL T/m	14 T/m
Mms (grams)	43 grams
Xmax (mm)	4.5 mm
Sd (cm ²)	530 cm ²
Efficiency %	2.75%
Le (1k Hz)	1.64 mH

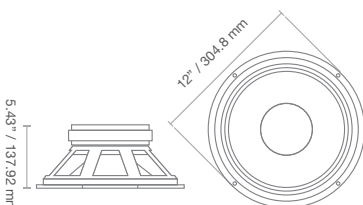
MOUNTING / SHIPPING INFORMATION

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
Fixing Holes	8x 7.0 mm on 11.75" / 298 mm PCD
Depth	5.43" / 137.92 mm
Weight	11.02 lb / 5.0 kg
Recommended Enclosure Volume	1.05 - 2.64 cu ft / 30 - 75 litres
Shipping Weight	12.89 lb / 5.85 kg
Packing Carton Dimensions	165 x 330 x 330 mm

MATERIALS OF CONSTRUCTION

Former Material	1.1 Tesla
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

- 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.
- Technical Schematic provided for illustrative purposes only and is not indicative of the actual product.



SOVEREIGN 12-300

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