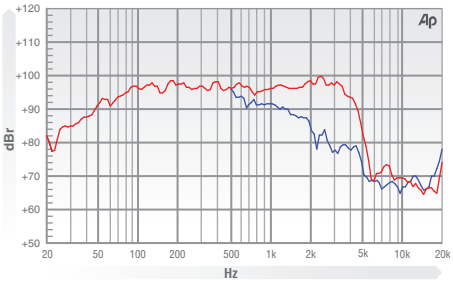
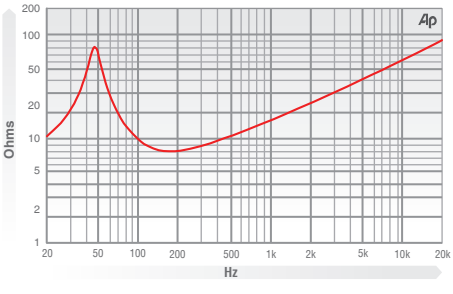
SOVEREIGN 12-300

Medium-power 12” driver for use as bass-mid woofer in medium sized vented enclosures or as a mid in small sealed boxes.

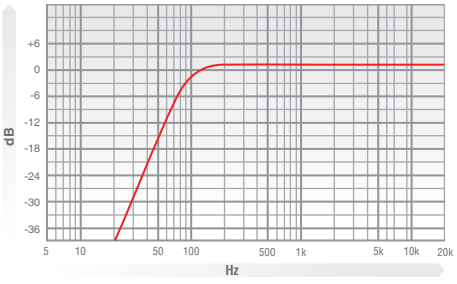
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12”
Impedance	8 Ω
Power Handling	300 w (EIA 426A)
Peak Power (6dB Crest Factor)	1200 w (EIA 426A)
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” / 262 mm
Peak Displacement Volume of Cone Vd	0.24 litres
Magnet Weight	56 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.70" / 18 mm
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	114
Vd litres	0.24
CMS (mm/N)	0.278
BL T/m	14.8
Mms (grms)	43
Xmax (mm)	4.5
Sd (cm²)	540
Efficiency %	2.89
Le (1kHz)	1.64 mH

MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Steel
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive Voltage at Red Terminal Causes Forward Motion of Cone

MOUNTING / SHIPPING INFORMATION

Overall Diameter	12.00” / 310 mm
Flange Height	0.27” / 7 mm
Baffle Hole Diameter F/M	11.25” / 286 mm
Baffle Hole Diameter R/M	11.25” / 286 mm
Gasket Supplied	Front & Rear
Fixing Holes	8x 7.0 mm on 11.75" / 298 mm PCD
Depth	5.43” / 138 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

* Half space response measured in a 975 litre sealed box ** Normalised bass response in 75 litre vented enclosure tuned to 45Hz • Please enquire about alternative impedances. • EIA 426A. power handling test. Pink noise bandpass filtered at 12 dB per octave. Driver mounted in free air, test signal applied at rated power for 8 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.