

THE SOVEREIGN SERIES SOVEREIGN 12-200

BASS / MID RANGE DRIVER



12" / 304.8 mm
CHASSIS DIAMETER

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

100 dB
SENSITIVITY (1w / 1m)

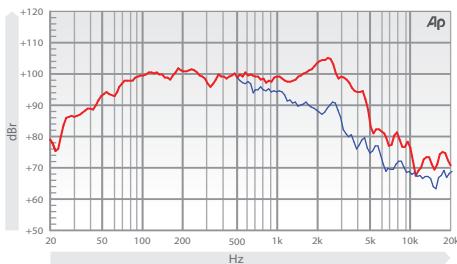
45 Hz - 4 kHz
FREQUENCY RESPONSE

2.0" / 50.8 mm
Copper Voice Coil

- Medium-power driver ideal for use in pro-sound applications.
- Intended for use as a mid/ bass driver and in medium sized vented boxes as a woofer.
- Optimised cone pulp offering increased strength, durability and performance.

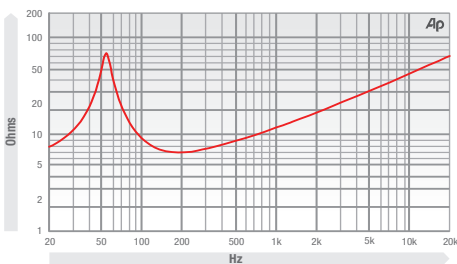
THE SOVEREIGN SERIES

FREQUENCY RESPONSE DATA*

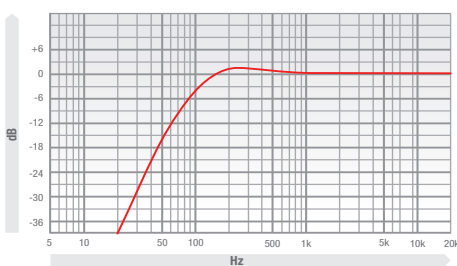


* Half space response measured in a 975 litre sealed box.

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass response in 75 litre tuned to 50 Hz

ELECTRO ACOUSTIC SPECIFICATIONS

| | |
|-------------------------------------|--------------------|
| Nominal Chassis Diameter | 12" / 304.8 mm |
| Impedance | 8 Ω |
| Power Handling | 200 w (A.E.S.) |
| Peak Power (6dB Crest Factor) | 800 w (A.E.S.) |
| Usable Frequency Range -6dB | 45 Hz - 4 kHz |
| Sensitivity (1 w - 1 m) | 100 dB |
| Moving Mass inc. Air Load | 44 grams |
| Minimum Impedance Zmin | 7.4 Ω |
| Effective Piston Diameter | 10.31" / 261.87 mm |
| Peak Displacement Volume of Cone Vd | 0.291 litres |
| Magnetic Gap Depth | 0.31" / 7.87 mm |
| Flux Density | 1.0 Tesla |
| Coil Winding Height | 0.59" / 14.98 mm |
| Voice Coil Diameter | 2.0" / 50.8 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 |
| Fixing Holes | 8x 7.0 mm on 11.75" / 298 mm PCD |
| Depth | 5.43" / 137.92 mm |
| Weight | 7.71 lb / 3.5 kg |
| Recommended Enclosure Volume | 1.05 - 2.64 cu ft / 30 - 75 litres |
| Shipping Weight | 9.47 lb / 4.3 kg |
| Packing Carton Dimensions | 165 x 330 x 330 mm |

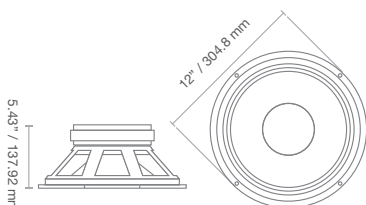
THIELE SMALL PARAMETERS

| | |
|--------------|--------------|
| FS Hz | 45 Hz |
| RE Ohms | 5.1 Ω |
| Qms | 7.1 |
| Qes | 0.472 |
| Qts | 0.44 |
| Vas Ltr | 103 litres |
| Vd litres | 0.291 litres |
| CMS (mm/N) | 0.25 mm/N |
| BL T/m | 12.3 T/m |
| Mms (grams) | 44 grams |
| Xmax (mm) | 5.5 mm |
| Sd (cm²) | 530 cm² |
| Efficiency % | 2.29% |
| Le (1k Hz) | 1.56 mH |

MATERIALS OF CONSTRUCTION

| | |
|-----------------------------|--|
| Former Material | 1.0 Tesla |
| Voice Coil | Copper |
| Magnet Material | Ferrite |
| Chassis | Pressed Steel |
| Cone | Paper |
| Surround / Edge Termination | Polyvinyl Damped Multi Roll Linen |
| Dust Dome | Paper |
| Connectors | Solder Tag |
| Polarity | Positive voltage at red terminal causes forward motion of cone |

SOVEREIGN 12-200



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