



SOVEREIGN 12-500LF

High-power 12" bass driver ideally suited for use in two way ported enclosures.

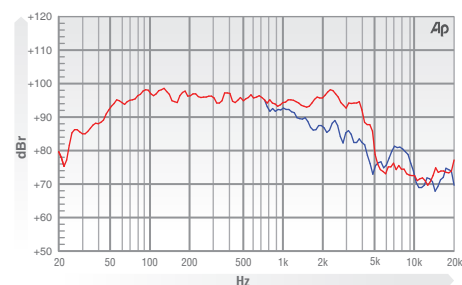
| ELECTRO ACOUSTIC SPECIFICATIONS | |
|-------------------------------------|-------------------|
| Nominal Chassis Diameter | 12" |
| Impedance | 8 Ω |
| Power Handling | 500 w (EIA 426A) |
| Peak Power (6dB Crest Factor) | 2000 w (EIA 426A) |
| Usable Frequency Range -6dB | 38 Hz - 5 kHz |
| Sensitivity (1 w - 1 m) | 92 dB |
| Moving Mass inc. Air Load | 75 |
| Minimum Impedance Zmin | 7.4 Ω |
| Effective Piston Diameter | 10.67" / 270 mm |
| Peak Displacement Volume of Cone Vd | 0.3 litres |
| Magnet Weight | 56 oz |
| Magnetic Gap Depth | 0.39" / 10 mm |
| Flux Density | 0.97 Tesla |
| Coil Winding Height | 0.74" / 19 mm |
| Voice Coil Diameter | 2.5" / 63.5 mm |

| THIELE SMALL PARAMETERS | |
|-------------------------|---------|
| FS Hz | 50 Hz |
| RE Ohms | 5.9 Ω |
| Qms | 7.5 |
| Qes | 0.53 |
| Qts | 0.51 |
| Vas Ltr | 66 |
| Vd litres | 0.298 |
| CMS (mm/N) | 0.14 |
| BL T/m | 16.37 |
| Mms (grms) | 75 |
| Xmax (mm) | 5.17 |
| Sd (cm ²) | 576.1 |
| Efficiency % | 1.5 |
| Le (1kHz) | 2.36 mH |

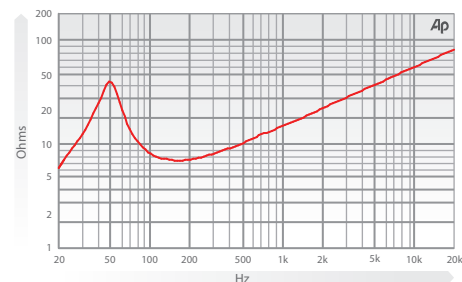
| MATERIALS OF CONSTRUCTION | |
|-----------------------------|--|
| Former Material | Glass Fibre |
| Voice Coil | Copper |
| Magnet Material | Ferrite |
| Chassis | Steel |
| Cone | Paper |
| Surround / Edge Termination | Polyvinyl Damped Dbl. Half Roll Linen |
| Dust Dome | Paper |
| Connectors | 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 | 5.69" / 143 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 |

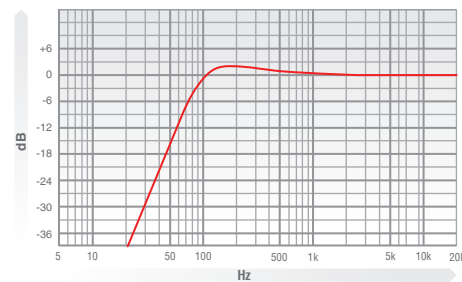
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



* 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.