

THE SOVEREIGN SERIES SOVEREIGN 18-500

BASS DRIVER

18" / 457.2 mm
CHASSIS DIAMETER

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

99 dB
SENSITIVITY (1w / 1m)

42 Hz -1.5 kHz
FREQUENCY RESPONSE

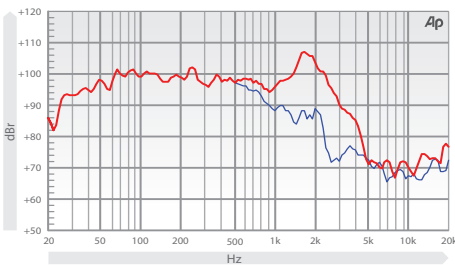
3.0" / 76.2 mm
Copper Voice Coil



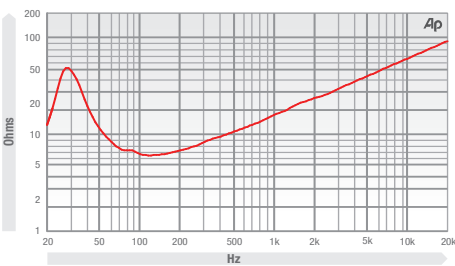
- Ideal for sealed bass enclosures for PA applications and sealed bass guitar cabinets.
- Can be used in large ported enclosures.
- Optimised cone pulp offering increased strength, durability and performance.

THE SOVEREIGN SERIES

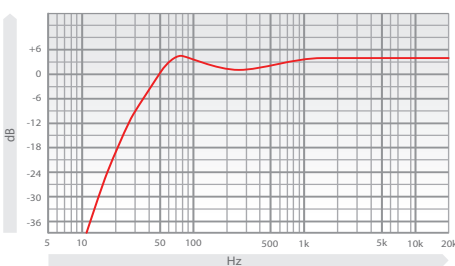
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	18" / 457.2 mm
Impedance	8 Ω
Power Handling	500 w (A.E.S.)
Peak Power (6dB Crest Factor)	2000 w (A.E.S.)
Usable Frequency Range -6dB	42 Hz -1.5 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	130 grams
Minimum Impedance Zmin	6.36 Ω
Effective Piston Diameter	13.97" / 355 mm
Peak Displacement Volume of Cone Vd	0.73 litres
Magnetic Gap Depth	0.39" / 9.90 mm
Flux Density	1.0 Tesla
Coil Winding Height	0.82" / 20.82 mm
Voice Coil Diameter	3.0" / 76.2 mm

MOUNTING / SHIPPING INFORMATION

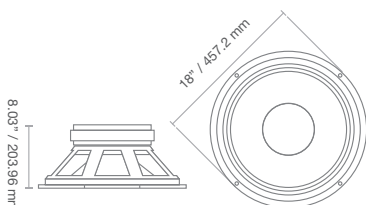
Overall Diameter	18" / 457.2 mm
Width Across Flats	N/A
Flange Height	0.47" / 11.93 mm
Baffle Hole Diameter F/M	16.69" / 423.92 mm
Baffle Hole Diameter R/M	16.69" / 423.92 mm
Gasket Supplied	Front & Rear
Fixing Holes	8x 8.5 mm on 17.44" / 443 mm PCD
Depth	8.03" / 203.96 mm
Weight	17.85 lb / 8.09 kg
Recommended Enclosure Volume	4.41 - 7.06 cu ft / 125 - 200 litres
Shipping Weight	21.59 lb / 9.8 kg
Packing Carton Dimensions	240 x 490 x 490 mm

THIELE SMALL PARAMETERS

FS Hz	33 Hz
RE Ohms	5.3 Ω
Qms	9.2
Qes	0.6
Qts	0.563
Vas Ltr	346 litres
Vd litres	0.73 litres
CMS (mm/N)	0.18 mm/N
BL T/m	15.43 T/m
Mms (grams)	130 grams
Xmax (mm)	6.3 mm
Sd (cm²)	1178 cm²
Efficiency %	2.00%
Le (1k Hz)	1.95 mH

MATERIALS OF CONSTRUCTION

Former Material	1.0 Tesla
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Ribbed 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



- 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.

SOVEREIGN 18-500

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