

SOVEREIGN 18-500

BASS DRIVER

18" / 457.2 mm	500 W (A.E.S.)	42 Hz - 1.5 kHz	3.0" / 76.2 mm	99 dB	6.3 mm Xmax
CHASSIS DIAMETER	AES POWER HANDLING	FREQUENCY RESPONSE	COPPER VOICE COIL	SENSITIVITY (1W/ 1m)	

- 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.

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	18" / 457.2 mm
Impedance	8 Ohm
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" / 355.00 mm
Magnet Weight	120 oz
Magnetic Gap Depth	0.39" / 9.90 mm
Flux Density	1 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
Outer Fixing Holes	8x Ø 8.5 mm on 17.44" / 443 mm PCD
Inner Fixing Holes	N/A
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 / 9.80 kg
Packing Carton Dimensions	(W) 485 (D) 485 (H) 240 mm

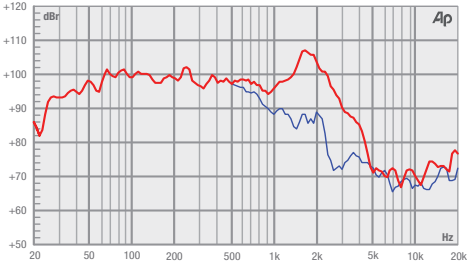
THIELE SMALL PARAMETERS

FS Hz	33 Hz
RE Ohms	5.3 Ω
Qms	9.200
Qes	0.600
Qts	0.563
Vas Ltr	346.00 Litres
Vd Litres	0.730 Litres
CMS (mm/N)	0.180 mm/N
BL T/m	15.43 T/m
Mms (grms)	130 grams
Xmax (mm)	6.3 mm
Sd (cm²)	1178 cm²
Efficiency %	2.000%
Le (1k Hz)	1.95 mH
EBP	55.00 Hz

MATERIALS OF CONSTRUCTION

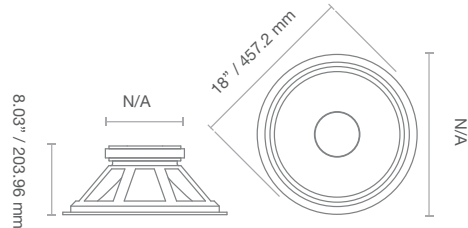
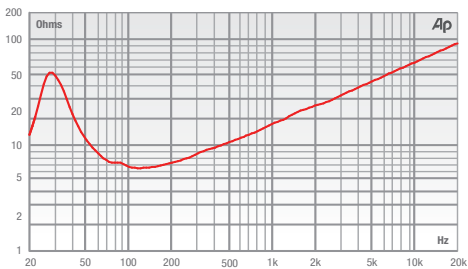
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Ribbed Paper
Surround / Edge Termination	Polyvinyl Damped DbI. Half Roll Linen
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive voltage at red terminal causes forward motion of cone

FREQUENCY RESPONSE DATA\*



† Half space response measured in a 975 Litre sealed box.

IMPEDANCE



\* 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.