

# THE SOVEREIGN SERIES SOVEREIGN 15-500

BASS DRIVER

**15" / 381 mm**  
CHASSIS DIAMETER

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

**99 dB**  
SENSITIVITY (1w / 1m)

**40 Hz - 4 kHz**  
FREQUENCY RESPONSE

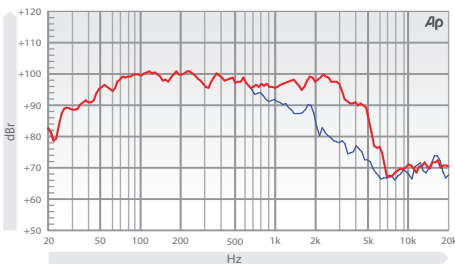
**3.0" / 76.2 mm**  
Copper Voice Coil



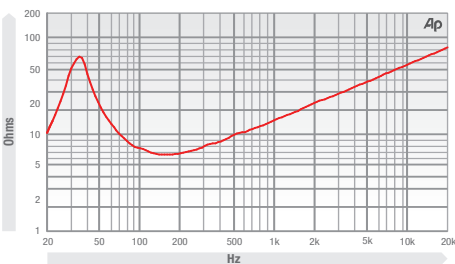
- High-power woofer with outstanding SPL output.
- For use in 2 way pro-sound applications.
- Ideally suited for medium to large vented enclosures.
- Works well in a sealed box as a mid/bass driver or as a floor wedge.
- Great for bass guitar in vented cabinets.
- Optimised cone pulp offering increased strength, durability and performance.

THE SOVEREIGN SERIES

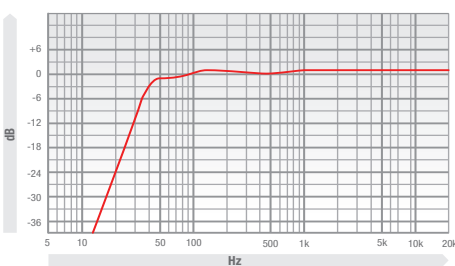
## FREQUENCY RESPONSE DATA\*



## IMPEDANCE



## PREDICTED BASS RESPONSE



## ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 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	40 Hz - 4 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	97.6 grams
Minimum Impedance Zmin	6.2 Ω
Effective Piston Diameter	15.03" / 381.76 mm
Peak Displacement Volume of Cone Vd	0.49 litres
Magnetic Gap Depth	0.39" / 9.90 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.70" / 17.78 mm
Voice Coil Diameter	3.0" / 76.2 mm

## MOUNTING / SHIPPING INFORMATION

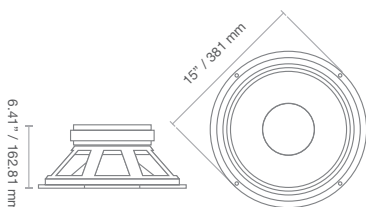
Overall Diameter	15" / 381 mm
Width Across Flats	N/A
Flange Height	0.35" / 8.89 mm
Baffle Hole Diameter F/M	13.85" / 351.79 mm
Baffle Hole Diameter R/M	13.85" / 351.79 mm
Gasket Supplied	Front & Rear
Fixing Holes	8x 6.35 mm on 14.56" / 369.2 mm PCD
Depth	6.41" / 162.81 mm
Weight	16.20 lb / 7.7 kg
Recommended Enclosure Volume	1.76 - 4.41 cu ft / 50 - 125 litres
Shipping Weight	18.96 lb / 8.6 kg
Packing Carton Dimensions	220 x 420 x 420 mm

## THIELE SMALL PARAMETERS

FS Hz	35 Hz
RE Ohms	5.2 Ω
Qms	7.7
Qes	0.35
Qts	0.34
Vas Ltr	220 litres
Vd litres	0.49 litres
CMS (mm/N)	0.212 mm/N
BL T/m	17.86 T/m
Mms (grams)	97.65 grams
Xmax (mm)	3.45 mm
Sd (cm²)	855 cm²
Efficiency %	2.90%
Le (1k Hz)	2.19 mH

## MATERIALS OF CONSTRUCTION

Former Material	1.1 Tesla
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Curvilinear 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



- Please enquire about alternative impedances.
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 40 Hz and 400 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 15-500

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