

SOVEREIGN PRO 15-600N

BASS DRIVER



15" / 381 mm
CHASSIS DIAMETER

600 W (A.E.S.)
AES POWER HANDLING

40 Hz - 4.5 kHz
FREQUENCY RESPONSE

3.0" / 76.2 mm
CCAW - INSIDE/ OUTSIDE
WINDINGS VOICE COIL

99 dB
SENSITIVITY (1W/ 1m)

6.5 mm Xmax
MAXIMUM LINEAR
EXCURSION

- Lightweight neodymium magnet assembly.
- Weighs only 5.2 kg.
- Highly versatile in 2-way ported enclosures.
- UK manufactured cone with optimised pulp offering increased strength, durability and performance.

The Sovereign Pro 15-600N is intended for use in high power two-way ported enclosures and as a high output bass driver in multi-way systems. It features a 3 inch 'sandwich' inside and outside windings voice coil immersed in a symmetric magnetic field yielding increased linearity and lower distortion at high excursion levels. The driver handles 600 Watts (A.E.S.) continuous and can cope with peaks in excess of 2400 Watts. This is due to advanced thermal management in the form of vented die-cast chassis and increased motor system venting. These measures effectively remove heat from the voice coil, resulting in extremely low-power compression. The Sovereign Pro 15-600N exhibits an average sensitivity of 99 dB and can deliver bass down to 40 Hz (-6 dB) in a 125 Litre ported enclosure.

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 mm
Impedance	8 Ohm
Power Handling	600 W (A.E.S.)
Peak Power (6dB Crest Factor)	2400 W (A.E.S.)
Usable Frequency Range -6dB	40 Hz - 4.5 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	82 grams
Minimum Impedance Zmin	6.5 Ω
Effective Piston Diameter	13.03" / 330.96 mm
Magnetic Gap Depth	0.39" / 10.00 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.67" / 17.00 mm
Voice Coil Diameter	3.0" / 76.2 mm

MOUNTING / SHIPPING INFORMATION

Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387.4 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	13.85" / 351.79 mm
Baffle Hole Diameter R/M	14" / 355.6 mm
Gasket Supplied	Front & Rear
Outer Fixing Holes	4x Ø 0.281" on 15.5" PCD / 4x Ø 7.1 mm on 393.7 mm PCD
Inner Fixing Holes	8x Ø 0.281" on 14.56" PCD / 8x Ø 7.1 mm on 370 mm PCD
Depth	7.13" / 174.00 mm
Weight	11.46 lb / 5.20 kg
Recommended Enclosure Volume	2.26 - 4.41 cu ft / 65 - 125 Litres
Shipping Weight	12.45 lb / 7.20 kg
Packing Carton Dimensions	(W) 410 (D) 410 (H) 210 mm

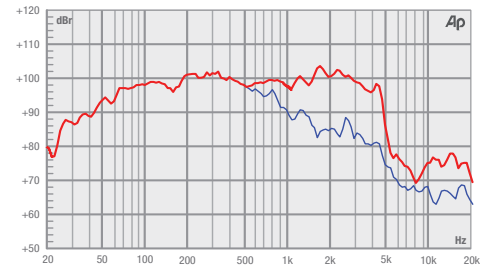
THIELE SMALL PARAMETERS

FS Hz	33 Hz
RE Ohms	5.4 Ω
Qms	4.330
Qes	0.234
Qts	0.222
Vas Ltr	310.00 Litres
Vd Litres	0.550 Litres
CMS (mm/N)	0.284 mm/N
BL T/m	21.9 T/m
Mms (grms)	82 grams
Xmax (mm)	6.5 mm
Sd (cm²)	855 cm²
Efficiency %	4.300%
Le (1k Hz)	2.56 mH
EBP	141.03 Hz

MATERIALS OF CONSTRUCTION

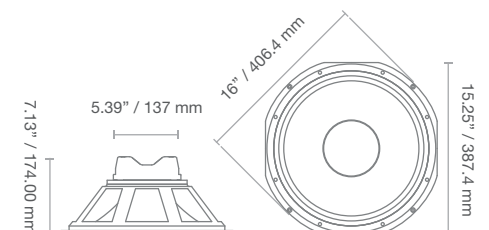
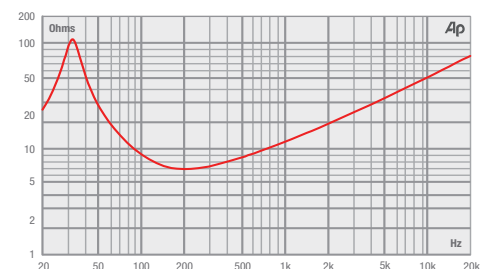
Former Material	Glass Fibre
Voice Coil	CCAW - Inside/ Outside Windings
Magnet Material	Neodymium
Chassis	Die-cast Aluminium
Cone	Curvilinear Polycellulose
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Poly Cotton
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive 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 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.