

SOVEREIGN PRO 18-800

SOVEREIGN PRO SERIES



ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	18"
Impedance	8 Ω
EIA 426 Power	800 w
Program Power	1600
Peak Power 6dB Crest Factor	3200
Frequency Range -3dB	35 Hz - 1.0 KHz
Sensitivity 1w - 1m	99 dB
Magnet Weight	126 oz
Magnetic Gap Depth	0.39" / 10 mm
Coil Diameter	4.0" / 102 mm
Flux Density (Tesla)	1.2
Coil Winding Length	0.90" / 23 mm

THIELE SMALL PARAMETERS

FS Hz	33 Hz
RE Ohms	6.5 Ω
Qms	6.53
Qes	0.41
Qts	0.39
Vas Ltr	258
Vd Litres	0.854
CMS (mm/N)	0.129
BL T/m	24.2
Mms (grms)	175.55
Xmax mm	7.5
Sd cm ²	1131
Efficiency %	2.27

MOUNTING / SHIPPING INFORMATION

Overall Diameter	19.1" / 485 mm
Baffle Hole (Front Mount)	16.53" / 420 mm
Flange Height	0.465" / 11.8 mm
Mounting Hole Diameter and Quantity	8 x 7mm dia on 468 PCD / 8 x 7mm dia on 438 PCD / 8 x 0.275" dia on 18.425 PCD
Mounting Hole P.C.D.	8 x 0.275" dia on 17.25 PCD / 8.07" / 205 mm
Overall Height	14.2 kg
Nett Weight	16.2 kg
Shipping Weight	250 x 520 x 520 mm
Packing Carton Dimensions	

MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Fabric
Dust Dome	Paper
Connectors	Push-button Spring
	Terminals
Polarity	Positive Voltage at Red Terminal Causes Forward Motion of Cone

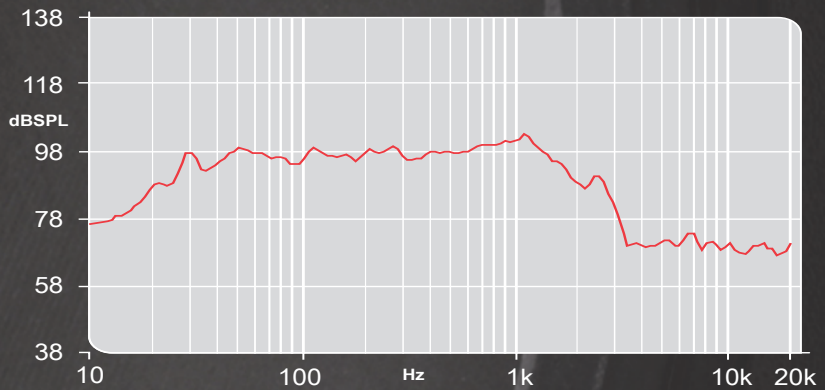
APPLICATION NOTES:

High-power woofer with outstanding SPL output, for use in pro-sound applications.

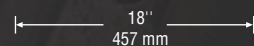
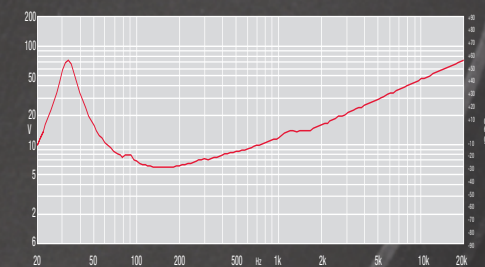
Ideally suited for medium to large vented boxes.

Optimised for Ported bass enclosures

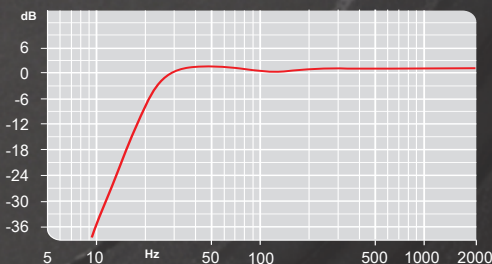
FREQUENCY RESPONSE DATA: ¹



IMPEDANCE:



COMPUTER PREDICTED BASS RESPONSE: ²



¹ Frequency response measured at 1W (2.83V) on IEC open baffle with a microphone distance of 1 metre

² Normalised bass response in 175 litre vented enclosure tuned to 40Hz

FANE