



## **KEY FEATURES:**

99 db 1W / 1m average sensitivity
77 mm high temperature sandwich voice coil
1200 W AES program power
Powerful, vented 220 mm magnet structure
Silicone spider

# **Application: Power bass**

The **18B500** loudspeaker are intended for high level, high power low frequency reproduction in ported enclosures. It feature vented die cast frame, 220 mm magnet structure, 3 inch voice coil and double spider assembly. This results in an very high sensitivity bass transducer for high power subwoofer application.





#### **SPECIFICATIONS**

Nominal Diameter 18"/461 inch/mm

Impedance 8 Ohm

Minimum Impedance 6.38 Ohm

Power Capacity AES <sup>1</sup> 600 W

Program Power <sup>2</sup> 1200 W

Sensitivity (50 - 200 Hz) 99 dB/W/m

Frequency Range 35 - 1000 Hz
Voice Coil Diameter 77 mm
Voice Coil Material Copper
Voice Coil Former Glassfiber
Voice Coil Windiag Donth 33 mm

Voice Coil Winding Depth 23 mm
Magnet Gap Depth 11 mm
Cone Material Paper

Basket Die cast aluminium

Magnet Ferrite Flux Density 1.27 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.

2. Program power is defined as 3db greater than AES Power Capacity.

### **THIELE-SMALL PARAMETERS**

Resonance Frequency

Resonance rrequeries	JT. JU 112
Mechanical Efficiency Factor (Qms)	9.24
Electrical Efficiency Factor (Qes)	0.284
Total Q (Qts)	0.275
Equivalent Air Volume (Vas )	243.91 Litress
Diaphragm mass ind. airload (Mms)	146.79 grams
Voice Coil Resistance Re	5.10 Ohms
Effective Diagram Area (Sd)	1110 cm <sup>2</sup>
Peak Linear Displacement of Diaphragm (Xmax)*	± 8.75 mm
Mechanical Compliance of Suspension (Cms)	0.142 mm/N
BL Product (BL)	24.06 T.m
V.C. Inductance at 1 kHz (Le)	1.37 mH

# **MOUNTING INFORMATION**

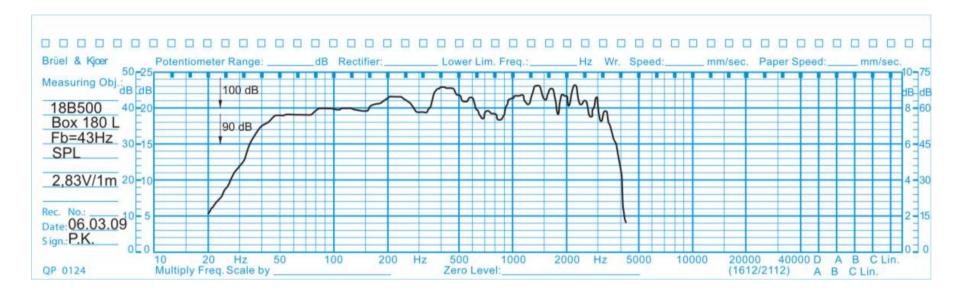
Overall Diameter	461 mm
Baffle Hole Diameter	416 mm
Number of Mounting Holes	8 eliptic 7 x 8,5 mm
Bolt Circle Diameter	438/441 mm
Overall Depth	204 mm
Net Weight	12.30 kg



34 90 Hz

<sup>\*</sup> Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.





Frequency Response





