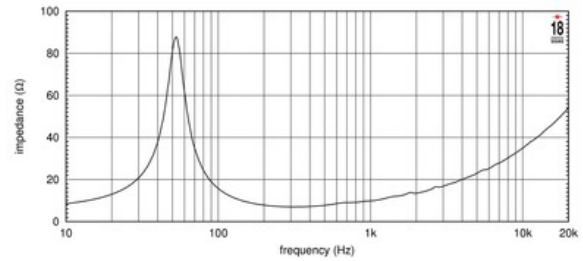
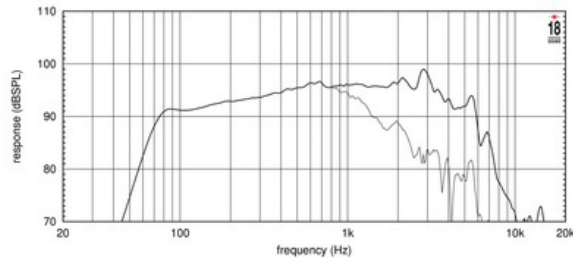


- 98 dB SPL 1W/ 1m average sensitivity
- 51 mm (2 in) Interleaved Sandwich copper Voice coil (ISV)
- 280 WAES power handling
- Improved heat dissipation via unique basket design
- Ideal for compact two way and multiway systems

The 10W500 is a low frequency driver designed to satisfy the need for a 10" ferrite loudspeaker combining excellent linearity with good sensitivity and power handling characteristics. The transducer is the evolution of the 10W400, and is primarily recommended for compact bass reflex systems in enclosures as small as 25 lt. The paper curvilinear cone is carried by a dampened linen, triple roll front suspension to control vibration modes that ensures good travel control and linear excursion. The 50 mm diameter copper wire voice coil employs the Interleaved Sandwich Voice coil (ISV) technology, where a high strength fibreglas former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly which, in conjunction with the highly advanced design of the magnetic structure, provides a high force factor or BL. Another feature of 10W500 is the fine air channels between the chassis back plate and the top plate of the magnet, which draw heated air out from the voice coil gap and dissipate the energy through the chassis casting. The top and back plates of the magnet assembly have been designed to optimise flux density and BL factor in the air gap using our in-house FEA CAD facility.



SPECIFICATIONS

| | |
|--|----------------|
| Nominal Diameter | 260 mm (in) |
| Nominal Impedance | 8 Ω |
| Minimum Impedance | 7.0 Ω |
| Nominal Power Handling ¹ | 280 W |
| Continuous Power Handling ² | 400 W |
| Sensitivity ³ | 98.0 dB |
| Frequency Range | 55 - 4500 Hz |
| Voice Coil Diameter | 51 mm (2.0 in) |
| Winding Material | copper |

DESIGN

| | |
|------------------------|--|
| Surround Shape | Triple roll |
| Cone Shape | Curvilinear |
| Magnet Material | Ferrite |
| Woofers Cone Treatment | Weather protected |
| Recommended Enclosure | 30.0 dm ³ (1.06 ft ³) |
| Recommended Tuning | 58 Hz |

PARAMETERS⁴

| | |
|---------------------|--|
| Resonance Frequency | 53 Hz |
| Re | 6.0 Ω |
| Qes | 0.31 |
| Qms | 4.22 |
| Qts | 0.29 |
| Vas | 45.2 dm ³ (1.6 ft ³) |
| Sd | 350.0 cm ² (54.25 in ²) |
| Xmax | 5.5 mm |
| Mms | 33.0 g |
| Bl | 14.6 Txm |
| Le | 0.72 mH |
| EBP | 170 Hz |

MOUNTING AND SHIPPING INFO

| | |
|-----------------------------|--|
| Overall Diameter | 260 mm (10.24 in) |
| Bolt Circle Diameter | 244 mm (9.61 in) |
| Baffle Cutout Diameter | 232.0 mm (9.13 in) |
| Depth | 121 mm (4.76 in) |
| Flange and Gasket Thickness | 14 mm (0.55 in) |
| Net Weight | 4.7 kg (10.36 lb) |
| Shipping Weight | 5.1 kg (11.24 lb) |
| Shipping Box | 275 x 275 x 164 mm (10.83x10.83x6.46 in) |

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.