12W500 4Ω

LF drivers - 12.0 Inches

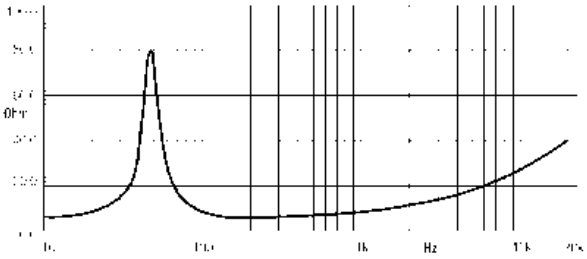
- 98,5 dB SPL 1W / 1m average sensitivity
- 65 mm (2,5 in) Interleaved Sandwich Voice coil (ISV)
- 350 W AES power handling
- Excellent transient response
- Improved heat dissipation via unique basket design
- Ideal for compact two way systems

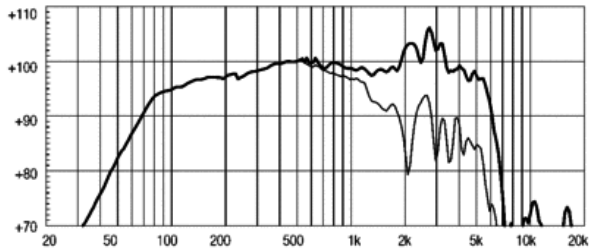
The 12W500 is a 500W program low frequency driver designed to satisfy the need for a 12" loudspeaker which combines excellent linearity with good sensitivity and power handling characteristics. It is primarily intended for compact bass reflex applications in enclosures as small as 50 lt, typically for two-way systems in combination with 1" compression driver. The high quality paper cone has a smooth, curvilinear profile design that eliminates bell-mode resonances within the intended frequency range. This is carried by a specially treated, dampened double half-roll linen suspension which has been designed to control excursion maintaining the piston action linearity. The 12W500 employs the Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fiberglas former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly with a reduced tendency for eccentric behavior when driven hard. Voice coil cooling is achieved by incorporating airways between the chassis back plate and the top plate of the magnet, allowing heated air from the voice coil and gap to be channeled away and dissipated by the chassis basket.

Eighteen Sound Srl
Via Botticelli 8 - 42124 Mancasale (RE) - ITALY - Ph. +39 0522 1861800 - Fax +39 0522 1861801 - info@eighteensound.it

12W500 4Ω

LF drivers - 12.0 Inches





SPECIFICATIONS

Nominal Diameter	300 mm (in)
Nominal Impedance	4 Ω
Minimum Impedance	2.7 Ω
Nominal Power Handling[1]	350 W
Continuous Power Handling[2]	500 W
Sensitivity[3]	98.5 dB
Frequency Range	50 - 6000 Hz
Voice Coil Diameter	64 mm (2.52 in)

DESIGN

Recommended Enclosure	75.0 dm^3 (2.65 ft^3)
Recommended Tuning	50 Hz

PARAMETERS[4]

Resonance Frequency	49 Hz
Re	2.7 Ω
Qes	0.37
Qms	6.1
Qts	0.35
Vas	101.0 dm^3 (3.57 ft^3)
Sd	531.0 cm^2 (82.31 in^2)
Xmax	4.0 mm
Mms	36.5 g
Bl	9.6 Txm
Le	0.67 mH
EBP	132 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	296 mm (11.65 in)
Baffle Cutout Diameter	282.0 mm (11.1 in)
Depth	141 mm (5.55 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Net Weight	5.2 kg (11.46 lb)
Shipping Weight	5.9 kg (13.01 lb)
Shipping Box	332 x 332 x 184 mm (13.07x13.07x7.24 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.

Eighteen Sound Srl
Via Botticelli 8 - 42124 Mancasale (RE) - ITALY - Ph. +39 0522 1861800 - Fax +39 0522 1861801 - info@eighteensound.it