



10NW650

LF Neodymium Transducer

96 dB SPL 1W / 1m average sensitivity
 65 mm (2.5 in) aluminum edgewound voice coil
 600 W program power handling
 High excursion design for low frequency clarity and punch
 Weather protected cone and coated plates for outdoor usage
 Ultra lightweight design
 Suitable for line array applications and multiway systems

GENERAL SPECIFICATIONS

Nominal Diameter	260 mm (10 in)
Rated Impedance	8 Ohm
AES Power (1)	300 W
Program Power (2)	600 W
Peak Power	1200 W
Sensitivity (3)	96 dB
Frequency Range (4)	60 - 6000 Hz
Power Compression @-10dB	0,5 dB
Power Compression @-3dB	1,3 dB
Power Compression @Full Power	2,3 dB
Max Recomm. Frequency	1800 Hz
Recomm. Enclosure Volume	10 - 40 lt. (0,35 - 1,41 cuft)
Minimum Impedance	6,0 Ohm at 25°C
Max Peak To Peak Excursion	25 mm (0,98 in)

THIELE SMALL PARAMETERS (5)

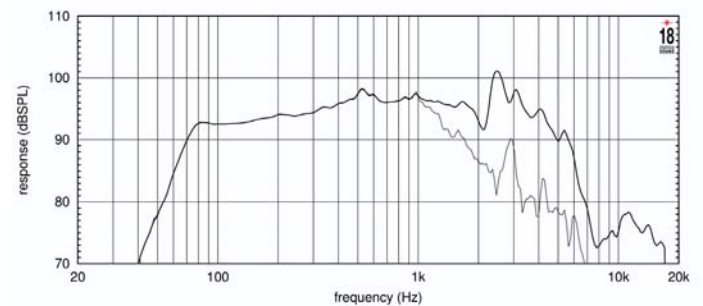
Fs	51 Hz
Re	5,0 Ohm
Sd	0,0346 sq.mt. (53,6 sq.in.)
Qms	8
Qes	0,29
Qts	0,28
Vas	48 lt (1.70 cu.ft.)
Mms	34 g (0.07 lb)
BL	14 Tm
Linear Mathematical Xmax (6)	± 7 mm (±0.28 in)
le (1kHz)	0,70 mH
Ref. Efficiency 1W@1m (half space)	95,2 dB

MOUNTING INFORMATION

Overall diameter	260 mm (10.24 in)
N. of mounting holes and bolt	8
Mounting holes diameter	6,1 mm (0.24 in)
Bolt circle diameter	243,5 mm (9.59 in)
Front mount baffle cutout Ø	230 mm (9.06 in)
Rear mount baffle cutout Ø	231 mm (9.09 in)
Total depth	131,8 mm (5.19 in)
Flange and gasket thickness	9,8 mm (0.39 in)
Net weight	2,7 kg (5.95 lb)
Shipping weight	3,15 kg (6.95 lb)
CardBoard Packaging dimensions	275 x 275 x 170 mm (9.25 x 9.25 x 6.69 in)

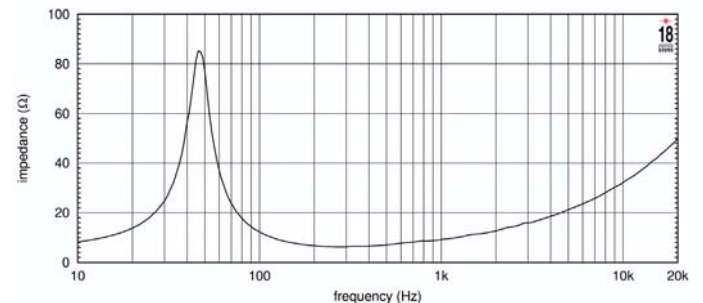


FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 10NW650 MADE ON 25 LIT. ENCLOSURE TUNED @ 65HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE.

FREE AIR IMPEDANCE MAGNITUDE CURVE



FREE AIR IMPEDANCE MAGNITUDE CURVE

NOTES

- (1) AES power is determined according to AES2-1984 (r2003) standard
- (2) Program power rating is measured in 25 lit enclosure tuned at 55 Hz using a 70-2000Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
- (3) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 2,83V sine wave test signal swept between 100Hz and 1000Hz with the test specimen mounted in the same enclosure as given for #2 above.
- (4) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.
- (5) Thiele - Small parameters are measured after the test specimen has been conditioned by 1 hour 20 Hz sine and represent the expected long term parameters after a short period of use.
- (6) Linear Math. Xmax is calculated as $(HvcHg)/2 + Hg/4$ where Hvc is the coil depth and Hg is the gap depth.