



8NW650

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	200mm (8 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)	55 - 6300 Hz
Power Compression @-10dB	0,8 dB
Power Compression @-3dB	2,2 dB
Power Compression @Full Power	3,0 dB
Max Recomm. Frequency	2500 Hz
Recomm. Enclosure Volume	10 - 40 lt. (0.36 - 1.41 cuft)
Minimum Impedance	6,3 Ohm at 25°C
Max Peak To Peak Excursion	26 mm (1.02 in)

THIELE SMALL PARAMETERS (5)

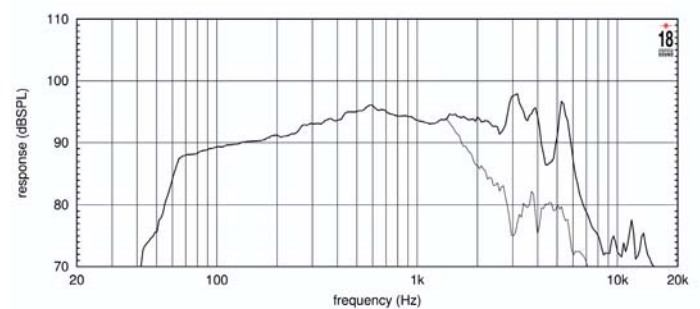
Fs	63 Hz
Re	6,1 Ohm
Sd	0,0227 sq.mt. (35,19 sq.in.)
Qms	3,7
Qes	0,27
Qts	0,25
Vas	17,8 lt. (0.63 cuft)
Mms	26 gr. (0.06 lb)
BL	15,2 Tm
Linear Mathematical Xmax (6)	± 5.5 mm (±0,22 in)
le (1kHz)	0,71 mH
Ref. Efficiency 1W@1m (half space)	94,0 dB

MOUNTING INFORMATION

Overall diameter	210 mm (8,3 in)
N. of mounting holes and bolt	6
Mounting holes diameter	6 mm (0,23 in)
Bolt circle diameter	195-198 mm (7,68-7,8 in)
Front mount baffle cutout Ø	185 mm (7,28 in)
Rear mount baffle cutout Ø	185,5 mm (7,3 in)
Total depth	111,3 mm (4.38 in)
Flange and gasket thickness	8,8 mm (0,35 in)
Net weight	2,2 kg (4,85 lb)
Shipping weight	2,5 kg (5,51 lb)
CardBoard Packaging dimensions	235 x 235 x 150 mm (9,25 x 9,25 x 5,91 in)

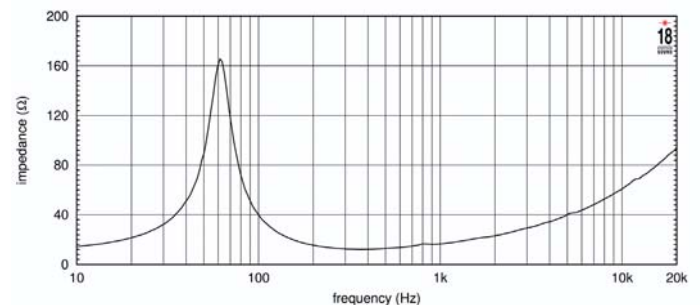


FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 8NW650 MADE ON 25LIT. 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 65Hz using a 70 - 700 Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
- 3) The peak power rating represents the maximum permitted instantaneous peak power level over a maximum period of 10ms which will be withstood by the loudspeaker without damage.
- 4) 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 500Hz and 2500Hz with the test specimen mounted in the same enclosure as given for #2 above.
- 5) 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.
- 6) Linear Math. Xmax is calculated as $(Hvc+Hg)/2 + Hg/4$ where Hvc is the coil depth and Hg is the gap depth.