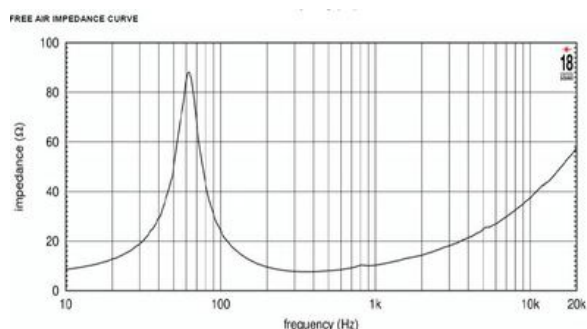
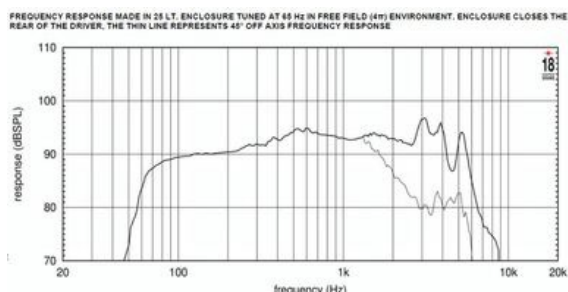


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- 96 dB SPL 1W/ 1m average sensitivity
- 65 mm (2.5 in) aluminum edgewound voice coil
- 600 W program power handling
- High excursion design for low frequency clarity and punch
- Weather protected cone and coated plates for outdoor usage
- Ultra lightweight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

The 8NW650 is a 8 inch neodymium woofer. The transducer has been developed in response to a specific market requirement for a light weight design that combines excellent linearity with high power handling capabilities. The 8NW650 is primarily intended for use as a low frequency driver for line-arrays as well as high quality 2-way or multiway reflex enclosures. The low pass filter might be positioned as high as 2000Hz. The high grade neodymium magnet assembly assures high flux concentration and low power compression. The levels of force factor and power handling are, as a consequence, at the upper professional level with best power to weight ratio. The 65mm Ø edgewound aluminum wire voice coil is wound on a high strength fiberglass former. The voice coil is cooled through airways placed between the chassis back plate and the magnet faceplate and carefully designed ventilation ducts made into the metal back plate. The curvilinear paper cone is formed using a special high strength wood pulp, designed to achieve the best possible rigidity and stiffness. The ability to perform in humid environments is an extra key feature of the 8NW650. This is achieved through the application of an exclusively developed membrane treatment which renders the cone humidity repellent while does not increasing the total moving speaker mass. In addition, a special epoxy treatment is applied to the top and back plates making the transducer far more resistant to the corrosive effects of salts and oxidization.



### SPECIFICATIONS

|  |                |
|--|----------------|
| Nominal Diameter                       | 200 mm ( in)   |
| Nominal Impedance                      | 8 Ω            |
| Minimum Impedance                      | 6.3 Ω          |
| Nominal Power Handling <sup>1</sup>    | 300 W          |
| Continuous Power Handling <sup>2</sup> | 600 W          |
| Sensitivity <sup>3</sup>               | 96.0 dB        |
| Frequency Range                        | 55 - 6300 Hz   |
| Voice Coil Diameter                    | 65 mm (2.5 in) |
| Winding Material                       | aluminum       |

### DESIGN

|                        |                   |
|------------------------|-------------------|
| Surround Shape         | Triple roll       |
| Cone Shape             | Curvilinear       |
| Magnet Material        | Neo               |
| Woofers Cone Treatment | Weather protected |

### PARAMETERS<sup>4</sup>

|                     |  |
|---------------------|--|
| Resonance Frequency | 63 Hz  |
| Re                  | 6.1 Ω  |
| Qes                 | 0.27   |
| Qms                 | 3.7  |
| Qts                 | 0.25   |
| Vas                 | 17.8 dm <sup>3</sup> ( ft <sup>3</sup> )       |
| Sd                  | 230.0 cm <sup>2</sup> (35.65 in <sup>2</sup> ) |
| Xmax                | 5.5 mm   |
| Mms                 | 26.0 g   |
| Bl                  | 15.2 Txm                                       |
| Le                  | 0.71 mH  |
| EBP                 | 233 Hz   |

### MOUNTING AND SHIPPING INFO

|                             |  |
|-----------------------------|--|
| Overall Diameter            | 210 mm (8.27 in)                       |
| Bolt Circle Diameter        | 195 mm (7.68 in)                       |
| Baffle Cutout Diameter      | 185.0 mm (7.28 in)                     |
| Depth                       | 111 mm (4.37 in)                       |
| Flange and Gasket Thickness | 8 mm (0.31 in)                         |
| Net Weight                  | 2.4 kg (5.29 lb)                       |
| Shipping Weight             | 2.7 kg ( lb)                           |
| Shipping Box                | 235 x 235 x 150 mm (9.25x9.25x5.91 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.