



# 18XL1600

18" - 1600 W - 98 dB

## NOMINAL SPECIFICATIONS

|                             |                          |
|-----------------------------|--------------------------|
| Nominal Diameter            | 460 mm (18 in)           |
| Overall Diameter            | 460 mm (18.11 in)        |
| Bolt Circle Diameter        | 440 mm (17.32 in)        |
| Baffle Cutout Diameter      | 422 mm (16.6 in)         |
| Depth                       | 231 mm (9.09 in)         |
| Flange and gasket Thickness | 14 mm (0.55 in)          |
| <b>Net Weight</b>           | <b>12.2 kg (26.9 lb)</b> |
| Shipping Box                | 490 x 485 x 275 mm       |
| (Single Carton Box)         | (19.3 x 19.1 x 10.8 in)  |
| Shipping Weight             | 13.7 kg (30.2 lb)        |

## TECHNICAL PARAMETERS

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Nominal Impedance                    | 8 Ω                                               |
| Minimum Impedance                    | 7.4 Ω                                             |
| AES Power Handling (1)               | 1600 W                                            |
| <b>Maximum Power Handling (4)</b>    | <b>3200 W</b>                                     |
| <b>Sensitivity (1W/1m)</b>           | <b>98 dB</b>                                      |
| Frequency Range                      | 30÷1500 Hz                                        |
| <b>Voice Coil Diameter</b>           | <b>100 mm (4 in)</b>                              |
| Winding Material                     | Cu                                                |
| Former Material                      | Glass Fiber                                       |
| Winding Depth                        | 31 mm (1.22 in)                                   |
| <b>Magnetic Gap Depth</b>            | <b>15.5 mm (0.61 in)</b>                          |
| Flux Density                         | 1.05 T                                            |
| <b>Magnet</b>                        | <b>Neodymium Slug Crown</b>                       |
| Basket Material                      | Aluminum                                          |
| Demodulation                         | Triple Al Dem. Ring                               |
| Cone Surround (5)                    | Triple Roll                                       |
| NET Air Volume filled by Loudspeaker | 7.3 dm <sup>3</sup> (0.258 ft <sup>3</sup> )      |
| Spider Profile                       | 2x non-adjacent symmetrical constant height waves |

## THIELE & SMALL PARAMETERS

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Fs                        | 32 Hz                                         |
| Re                        | 5.4 Ω                                         |
| Qes                       | 0.37                                          |
| Qms                       | 9.3                                           |
| Qts                       | 0.36                                          |
| Vas                       | 184.7 dm <sup>3</sup> (6.52 ft <sup>3</sup> ) |
| Sd                        | 1124 cm <sup>2</sup> (174.2 in <sup>2</sup> ) |
| Xmax (2)                  | 12.9 mm                                       |
| Xdamage (3)               | 28 mm                                         |
| Mms                       | 240 g                                         |
| Bl                        | 26.7 N/A                                      |
| Le                        | 1.45 mH                                       |
| Mmd                       | 217 g                                         |
| Cms                       | 0.1 mm/N                                      |
| Rms                       | 5.20 kg/s                                     |
| η <sub>o</sub> (Eta Zero) | 1.61 %                                        |
| EBP                       | 86 Hz                                         |

### NOTE:

- 2 Hour Test According to AES 2-1984 Rev. 2003
  - $X_{max} = [(Winding\ Depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth / 3)$
  - Maximum excursion before permanent damage
  - Maximum power is defined as 3dB greater than nominal power
  - Treated Polycotton
- PATENT PENDING

