

# 18XL1600

18" - 1600 W - 98 dB - 4 Ohm



## 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 (16.61 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<br>(Single Carton Box) | 490 x 485 x 275 mm<br>(19.3 x 19.1 x 10.8 in) |
| Shipping Weight                     | 13.7 kg (30.2 lb)                             |

## PART NUMBER

|                                |          |
|--------------------------------|----------|
| Push Terminals - 4 Ohm Version | 04604033 |
|--------------------------------|----------|

## NOTES:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003  
 (2) Maximum power is defined as 3dB greater than nominal power.  
 (3) Treated Polycotton  
 (4)  $X_{max} = [(winding\ depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth/3)$   
 (5) Maximum excursion before permanent damage

## TECHNICAL PARAMETERS

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Nominal Impedance                    | 4 Ohm                                             |
| Minimum Impedance                    | 4.4 Ohm                                           |
| AES Power Handling (1)               | 1600 W                                            |
| <b>Maximum Power Handling (2)</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                         | 0.98 T                                            |
| Magnet                               | Neodymium Slug Crown                              |
| Basket Material                      | Aluminum                                          |
| Demodulation                         | Triple Al Dem. Ring                               |
| Cone Surround (3)                    | 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          | 3 Ohm                                          |
| Qes         | 0.32                                           |
| Qms         | 8.6                                            |
| Qts         | 0.31                                           |
| Vas         | 201.1 dm <sup>3</sup> (7.10 ft <sup>3</sup> )  |
| Sd          | 1212 cm <sup>2</sup> (187.86 in <sup>2</sup> ) |
| Xmax (4)    | 12.92 mm                                       |
| Xdamage (5) | 28 mm                                          |
| Mms         | 252.3 g                                        |
| Bl          | 21.7 N/A                                       |
| Le          | 1.17 mH                                        |
| Mmd         | 204.6 g                                        |
| Cms         | 0.10 mm/N                                      |
| Rms         | 5.91 kg/s                                      |
| Eta Zero    | 1.98 %                                         |
| EBP         | 100 Hz                                         |

