

# 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 (Single Carton Box) | 490 x 485 x 275 mm (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 |
| Recone Kit - 4 Ohm Version     | R4604033 |

## 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   |

