

# 12XL1200

12" - 1400 W - 93 dB - 8 Ohm



## NOMINAL SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Nominal Diameter                 | 300 mm (12 in)                            |
| Overall Diameter                 | 316 mm (12.44 in)                         |
| Bolt Circle Diameter             | 298.5 mm (11.75 in)                       |
| Baffle Cutout Diameter           | 282 mm (11.10 in)                         |
| Depth                            | 168.75 mm (6.64 in)                       |
| Flange and Gasket Thickness      | 12.45 mm (0.49 in)                        |
| <b>Net Weight</b>                | <b>6.8 kg (15.0 lb)</b>                   |
| Shipping Box (Single Carton Box) | 350 x 346 x 216 mm (13.8 x 13.6 x 8.5 in) |
| Shipping Weight                  | 7.5 kg (16.5 lb)                          |

## PART NUMBER

|                                |          |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 03004310 |
|--------------------------------|----------|

## 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                    | 8 Ohm   |
| Minimum Impedance                    | 6.5 Ohm   |
| AES Power Handling (1)               | 1400 W  |
| <b>Maximum Power Handling (2)</b>    | <b>2800 W</b>                                     |
| <b>Sensitivity (1W/1m)</b>           | <b>93 dB</b>                                      |
| Frequency Range                      | 50-2500 Hz  |
| <b>Voice Coil Diameter</b>           | <b>100 mm (4 in)</b>                              |
| Winding Material                     | Cu  |
| Former Material                      | Glass Fiber                                       |
| Winding Depth                        | 28.9 mm (1.14 in)                                 |
| <b>Magnetic Gap Depth</b>            | <b>12 mm (0.47 in)</b>                            |
| Flux Density                         | 1.1 T   |
| Magnet                               | Neodymium Ring                                    |
| Basket Material                      | Aluminum  |
| Demodulation                         | Aluminum Ring                                     |
| Cone Surround (3)                    | Triple Roll                                       |
| NET Air Volume filled by Loudspeaker | 2.9 dm <sup>3</sup> (0.102 ft <sup>3</sup> )      |
| Spider Profile                       | 2x non-adjacent symmetrical variable height waves |

## THIELE & SMALL PARAMETERS

|             |  |
|-------------|--|
| Fs          | 50 Hz  |
| Re          | 5 Ohm  |
| Qes         | 0.43   |
| Qms         | 14.8   |
| Qts         | 0.42   |
| Vas         | 25.0 dm <sup>3</sup> (0.88 ft <sup>3</sup> ) |
| Sd          | 518 cm <sup>2</sup> (80.29 in <sup>2</sup> ) |
| Xmax (4)    | 12.45 mm                                     |
| Xdamage (5) | 24 mm  |
| Mms         | 152 g  |
| Bl          | 23.6 N/A                                     |
| Le          | 1.3 mH                                       |
| Mmd         | 138.7 g                                      |
| Cms         | 0.07 mm/N                                    |
| Rms         | 3.2 kg/s                                     |
| Eta Zero    | 0.71 %                                       |
| EBP         | 116 Hz                                       |

