

## XLS 10" Subwoofer



Type Number: 830452

### Features:

This new series of state-of-the-art subwoofers continue to enhance Peerless' reputation for delivering the highest quality components for bass in the world. Called the XLS - for "Extra Long Stroke" - these new audio transducers add even more excursion, and completely eliminate distortion.

Driver Highlights: Thick Nomex cone, 51 mm voice coil, ALP

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### Specs:

#### Electrical Data

|                                |      |      |     |
|--------------------------------|------|------|-----|
| Nominal impedance              | Zn   | 8    | ohm |
| Minimum impedance              | Zmin | 4.9  | ohm |
| Maximum impedance              | Zo   | 53.3 | ohm |
| DC resistance                  | Re   | 3.4  | ohm |
| Voice coil inductance          | Le   | 4.3  | mH  |
| Capacitor in series with x ohm | Cc   | 22   | uF  |

#### T-S Parameters

|                         |     |       |                 |
|-------------------------|-----|-------|-----------------|
| Resonance Frequency     | fs  | 18.9  | Hz              |
| Mechanical Q factor     | Qms | 2.63  |                 |
| Electrical Q factor     | Qes | 0.18  |                 |
| Total Q factor          | Qts | 0.17  |                 |
| Force factor            | Bl  | 17.5  | Tm              |
| Mechanical resistance   | Rms | 6.12  | Kg/s            |
| Moving mass             | Mms | 135.3 | g               |
| Suspension compliance   | Cms | 0.52  | mm/N            |
| Effective cone diameter | D   | 21.2  | cm              |
| Effective piston area   | Sd  | 352   | cm <sup>2</sup> |
| Equivalent volume       | Vas | 89.7  | ltrs            |
| Sensitivity (2.83V/1m)  |     | 88.4  | dB              |
| Ratio BL/√(Re)          |     | 112   |                 |
| Ratio fs/Qts            | F   | --    |                 |

#### Power handling

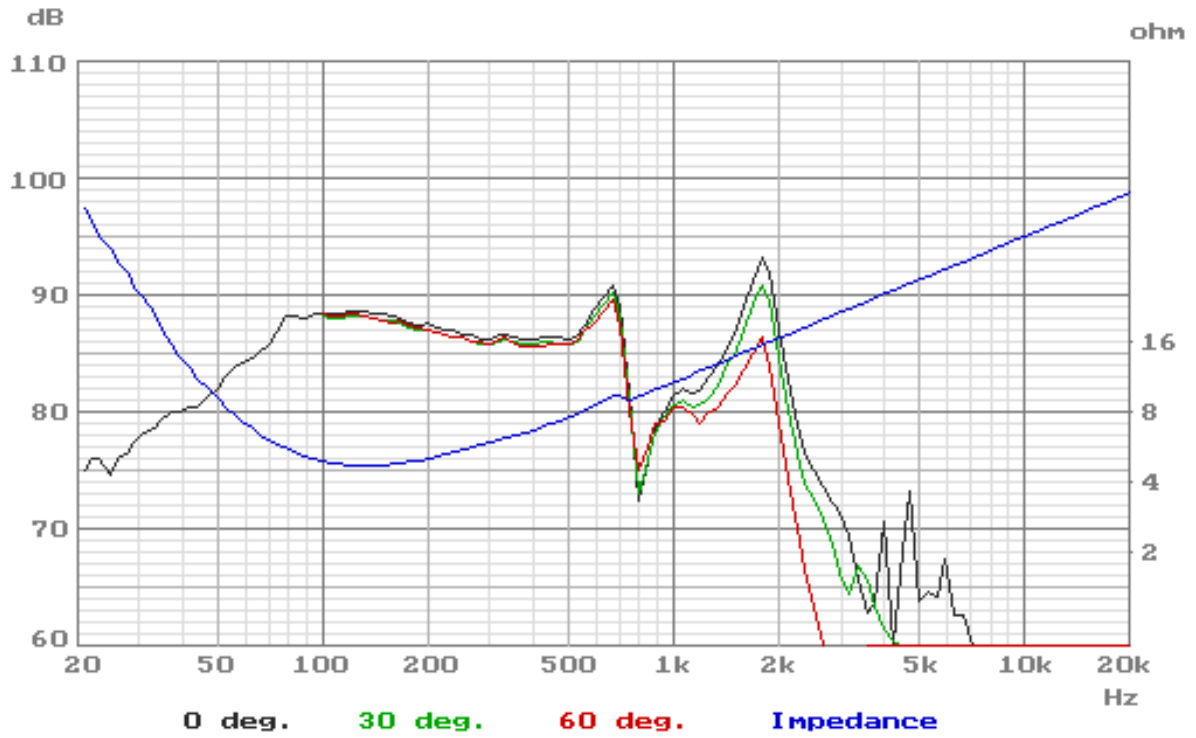
|                                 |    |      |
|---------------------------------|----|------|
| 100h RMS noise test (IEC)       | -- | W    |
| Long-term Max Power (IEC 18.3)  | -- | W    |
| Max linear SPL (rms) @ power    | -- | dB/W |
| Short Term Max power (IEC 18.2) | -- | W    |

#### Voice Coil and Magnet Parameters

|                         |      |     |
|-------------------------|------|-----|
| Voice coil diameter     | 51   | mm  |
| Voice coil height       | 33   | mm  |
| Voice coil layers       | 4    |     |
| Height of the gap       | 8    | mm  |
| Linear excursion +/-    | --   | mm  |
| Max mech. excursion +/- | --   | mm  |
| Flux density of gap     | 1.04 | mWb |
| Total useful flux       | 2.5  | mWb |
| Diameter of magnet      | 147  | mm  |
| Height of magnet        | 35   | mm  |
| Weight of magnet        | 2.42 | Kg  |

Notes:  
IEC specs refer to IEC 60268-5 third edition.  
All Tymphany products are RoHS compliant.

## Frequency:



## Mechanical Dimensions:

