

## [H]ardBASS HardX Series

# Hard12

High-SPL 12" Midrange Woofer

### Introduction:

The Hard12 is a High-SPL 12" Midrange woofer with extended frequency response. It is made for Line-Array systems and Pro Audio Loudspeaker cabinets.

### Specifications:

800W Program Power / 400W RMS Power Rating  
89 Oz Ceramic Ferrite Magnet / 8  $\Omega$  Nominal impedance  
3" Aluminum Voice Coil with Inside/Outside winding  
98dB SPL Sensitivity / 55Hz to 4,000Hz usable frequency range

### Thiele/Small Parameters

fs 55 Hz      Sd: 523 cm<sup>2</sup>  
re: 5.4 $\Omega$   
Qms: 8.76    Qes: 0.29    Qts: 0.28  
Compliance Equivalent Volume, VAS: 60.30 Ltr  
Mechanical Compliance of Suspension, Cms: 155uM/N  
Diaphragm Mass including airload, Mms: 52 g  
BL product: 17.8 T/M



