INTRODUCTION

The 1508 and 1208 driver series represent a new level of power and performance for Black Widow loudspeakers. Power handling is increased by 40% over other comparable models, along with reduced distortion and higher overall sound quality.

The series includes 12" and 15" models in both 4 and 8 Ohm impedances.

DESIGN

The '08 BWX series uses a new cone that is a variation on the existing Kevlar®-impregnated cones used on all Black Widows. The new cone is stronger and tougher, highly water resistant, and has a more powerful magnetic structure and voice coil assembly. The dust cap is also made of the same extremely strong material.

Voice coil assemblies on the new drivers use thermoset-insulated aluminum or copper ribbon wire, bonded onto an incredibly durable, heat resistant polyimide joint, which is then coated with a special thermally-conductive silicone adhesive for encapsulation and heat dissipation.

The magnet structure includes subtle changes to its geometry that improve power handling. While it appears the same as the standard structure, and replacement parts fit on standard BW magnet structures, the improved power handling will be compromised if the standard structure is used.

These new drivers also adhere to the familiar features of Black Widow products: cast aluminum frames, replaceable basket assemblies, Rubatex gaskets and high reliability, spring-loaded terminals are all used.

APPLICATIONS

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The Peavey 1208sps is a highly efficient and smooth loudspeaker system, designed to meet the needs of professionals, hobbyists and audiophiles alike. This guide will help you choose the best enclosure for your Peavey drivers:

### Enclosures Overview

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<td>Sealed enclosure</td>
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<td>Medium vented enclosure</td>
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<td>Large vented enclosure</td>
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<tr>
<td>Small vented enclosure</td>
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<tr>
<td>Single reflex bandpass enclosure</td>
<td></td>
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<tr>
<td>Big and loud! Super efficiency and strong bass performance to an F3 of 50 Hz. However, for subwoofer-only use the sps and cu versions which are better performers.</td>
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<tr>
<td>An incredibly small enclosure with outstanding bass performance for its size. F3 is 53 Hz.</td>
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<tr>
<td>Strong, flat response with bass extension to an F3 of 41 Hz. Deep, predictable bass quality for great subwoofer and multi-way system performance.</td>
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<tr>
<td>Special enclosure design that uses the enclosure as an acoustic filter for shaped response. Great choice for a compact subwoofer system. Response is 48 Hz – 138 Hz.</td>
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<tr>
<td>The 15&quot; drivers can work with crossovers as high as 2 kHz but work best below 1 kHz. The 7&quot; drivers are optimized for 2.5 kHz but perform well below 2.5 kHz.</td>
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### Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Frequency Range</th>
<th>Impedance</th>
<th>Power Capacity</th>
<th>Cone Material</th>
<th>Voice Coil Material</th>
<th>Sensitivity</th>
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<tr>
<td>1208sps</td>
<td>35 Hz ~ 2 kHz</td>
<td>2 Ohm</td>
<td>1000 W program</td>
<td>Kevlar</td>
<td>CCA</td>
<td>96.7 dB</td>
</tr>
<tr>
<td>1508he</td>
<td>50 Hz ~ 3.5 kHz</td>
<td>8 Ohm</td>
<td>2000 W peak</td>
<td>Kevlar</td>
<td>CCA</td>
<td>96.9 dB</td>
</tr>
</tbody>
</table>

### Design Considerations

- **Choice of Enclosure**: The choice of enclosure is critical to the performance of your loudspeaker system. It affects the Qms, Qes, Qrs, and Qts of the system, which in turn affect the bass response and midrange clarity.
- **Crossover Design**: The crossover design should be optimized to work with the specific drivers and enclosures used.
- **Cabinet Design**: The cabinet design should minimize acoustic feedback and optimize the driver's performance. It should be strong enough to handle the acoustic loads without resonating.
- **Driver Placement**: Proper driver placement is crucial to achieving the desired bass response. The drivers should be positioned to maximize the baffle area and minimize the effects of the enclosure on the sound quality.

By carefully selecting the right enclosure and optimizing the crossover design, you can achieve a powerful and versatile loudspeaker system that will deliver superior performance in any application.