

# CL208S

Compact High-Power 200-Watt, 4  $\Omega$  Subwoofer System with Dual 8" Low-Frequency Transducers



## Features

- Professional sound reinforcement subwoofer system designed for a variety of fixed installation applications
- Exceptional sound quality with ultra-low frequency bandwidth and uniform dispersion
- Dual 100-Watt 8" low-frequency transducers provide deep bass for small to medium sized rooms
- By-passable internal passive crossover
- Dual professional speaker connectors (compatible with Neutrik Speakon connectors) and 4-position terminal strip
- Internally braced and acoustically inert rectangle birch plywood enclosure ideal for cluster applications
- Multiple threaded inserts for flexible installation
- Powder coated steel grille with acoustically transparent foam matching cabinet color
- High-quality components and exceptionally rugged construction ensure long life

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## Compact High-Power 200-Watt, 4 Ω Subwoofer System with Dual 8" Low-Frequency Transducers

### Product Overview

The EUROCOM CL208S is a professional high-performance ultra-low-frequency subwoofer system that is ideal for a wide variety of fixed installation applications. Compact yet powerful, the CL208S features clean lines and a unique fabric-finished wrap-around grille for a refined appearance that complements even the most elegant rooms. The modular design allows deployment individually, in pairs, or in larger low-frequency arrays, making it easy to tailor systems to the specific requirements of the venue. Delivering deep, powerful lows in small to medium-sized spaces, the CL208S is perfect for theaters and auditoria, performing arts centers, clubs and discotheques, houses of worship, themed entertainment, and sporting arenas and stadiums.

The CL208S is housed in a rectangular enclosure of acoustically inert high-quality laminated Baltic birch plywood. Internal steel bracing enhances the cabinet's natural rigidity and provides a set of integrated threaded mounting-point inserts. A rated load factor of at least 10 times overall cabinet weight makes the CL208S an exceptionally safe choice for flown installation.

The CL208S achieves fully professional performance and reliability with newly-designed components whose frequency response, sensitivity, and power handling are all custom tailored for CL Series loudspeakers. BEHRINGER maintains complete control over quality and sonic character by manufacturing all CL Series components—starting with the pulp used for cone fabrication—in our own factories.

Featuring two 8" woofers with 200 W long-term power-handling, the CL208S accurately reproduces even the most demanding low-end material for a clean, full sound. A built-in passive crossover maximizes flexibility by band-splitting the output of a single amplifier channel to power both the CL208S and a full-range loudspeaker.

Every aspect of the CL208S has been thought through to maximize value and convenience for both the installer and the end user. The result is an attractive, durable subwoofer system that delivers deep, satisfying low-end for any installation application.

### Technical Specifications

• Frequency range (-10 dB)	41 Hz - 200 Hz
• Frequency response ( $\pm 3$ dB)	46 Hz - 150 Hz
• Sensitivity (1 W @ 1 m passive)	94 dB (half space)
• Crossover modes	Bypassable
• Crossover frequency	200 Hz
• Power capacity (long term, IEC passive)	200 W RMS @ 28.3 V
• Maximum continuous SPL (passive)	117 dB @ 1 m
• Maximum peak SPL (passive)	123 dB @ 1 m
<b>Transducers:</b>	
• Nominal impedance	4 Ω
• Low frequency driver	2 x 8" @ 100 W
• Enclosure	Rectangle, laminated birch plywood
• Grille	Steel
• Rigging points	16 X M10 threaded rigging points
• Termination	NL4 and 4-position terminal strip connection
• Dimensions (H x W x D)	11.3 x 25.6 x 14.6" / 286 x 650 x 371 mm
• Weight	45 lbs / 20.4 kg

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## Compact High-Power 200-Watt, 4 $\Omega$ Subwoofer System with Dual 8" Low-Frequency Transducers

### Architect's and Engineer's Specifications

The loudspeaker shall be a professional fixed-installation subwoofer system in a steel-braced plywood enclosure with a 2 x 8" / 203 mm low-frequency cone transducer.

**Driver** for the subwoofer system shall be a dual 8" / 203 mm direct-radiating cone transducer.

**Enclosure** for the subwoofer system shall be constructed of laminated birch plywood that is internally braced with steel. The enclosure shall be finished with durable, scuff-free black paint. The front of the enclosure shall be protected with a perforated grille of powder-coated structural steel behind fabric-wrapped acoustically transparent foam. The back of the enclosure shall have a recessed steel input plate for connectors.

**Rigging** of the subwoofer system shall be with 16 M10 threaded rigging points fitted to the exterior, four on each end.

**Connections** to the subwoofer system shall include the following:

- Two NL4 connectors, wired in parallel as band-limited input to the passive crossover
- One 4-position terminal strip with captive wire clamps and removable plastic cover, with IN terminals wired in parallel to OUT terminals and to the NL4 connectors
- Crossover bypass as a detachable connector on the crossover PCB, allowing direct connection to each driver

**Performance criteria** met by the subwoofer system shall include:

- Nominal impedance of 4  $\Omega$
- Sensitivity (1 W/1 m passive, half-space) of 94 dB
- Usable frequency range (-10 dB) of 41 Hz - 200 Hz
- Frequency response ( $\pm 3$  dB) of 46 Hz - 150 Hz
- Power Handling (IEC268-5, passive) of 200 W RMS @ 28.3 V
- Maximum SPL (1 m, passive) of 117 dB continuous and 123 dB peak

**Physical characteristics** of the subwoofer system shall be:

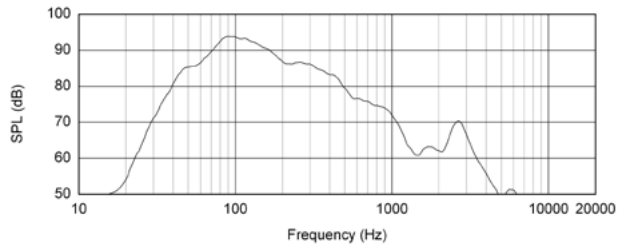
- Height x Width x Depth of 11.3 x 25.6 x 14.6" / 286 x 650 x 371 mm
- Net weight of not more than 45 lbs / 20.4 kg

The subwoofer system shall be the BEHRINGER EUROCOM CL208S.

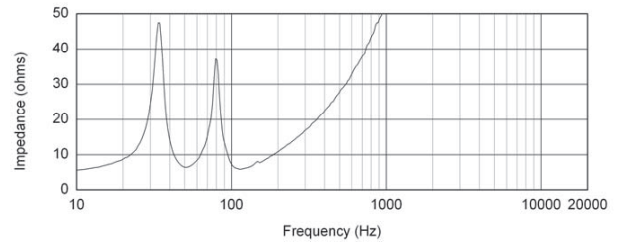
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Frequency Response, 1 W @ 1 M



Impedance VS. Frequency



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## Compact High-Power 200-Watt, 4 Ω Subwoofer System with Dual 8" Low-Frequency Transducers

### Dimensional Drawings

