

EON518S Portable Self-Powered 18", Bass-Reflex Design

Professional Series

Applications:

- ▶ Live sound reinforcement, speech and vocals, music playback in entertainment, A/V, and institutional venues – especially when ease of use and portability are important factors.
- ▶ Extending the low-frequency output performance of powered and non-powered full-range speaker systems.
- ▶ Optimized for complete compatibility with EON® full-range speakers.

Features:

- ▶ 500 watt High-Performance Powered Subwoofer System
- ▶ True portability weighing only 29.5 kg (65 lb)
- ▶ Compact enclosure
- ▶ Designed handles with comfort rubber grips for easy transport
- ▶ 18" Differential Drive® low-frequency driver with neodymium magnet for low-distortion and light weight
- ▶ Efficient Class-D digital amplifier technology
- ▶ Stereo balanced loop-through outputs
- ▶ Integrated and switchable High Pass Filter on loop-through outputs
- ▶ Easy “daisy-chain” connections for extending the system
- ▶ Polarity reverse selector
- ▶ Integrated 36 mm pole mount socket for sub/satellite applications
- ▶ Rugged DuraFlex™ finish

The EON518S is an 18-inch, direct radiating, high performance powered compact subwoofer system. Designed to extend low frequency performance of any EON system. It also offers the convenience of an integrated crossover and stereo loop-thru capability. The EON518S is comprised of a 460 mm (18") Differential Drive® woofer driven by a 500 watt Class-D digital amplifier.

The amplifier input panel offers stereo or mono line level inputs via balanced XLR connectors as well as a single channel speaker level input via a ¼ inch TS phone jack. Signal processing, crossover functionality and limiting for the system is integrated into the input section functionality. Overall subwoofer input sensitivity is controlled by a single easy grip knob and a simple switch enables polarity reversal for sub/satellite system optimization. Signal present and limit lights indicate performance status. An additional switch is provided to defeat the illuminated logo in theatre applications.

The enclosure has been engineered for maximum performance and absolute minimum size. Constructed of 18 mm plywood it is coated in JBL's rugged DuraFlex™ finish. It also features a full screen-backed steel grille designed into a rugged copolymer bezel for maximum component protection. For comfortable portability the EON518S features two large ergonomic rubber grip handles.



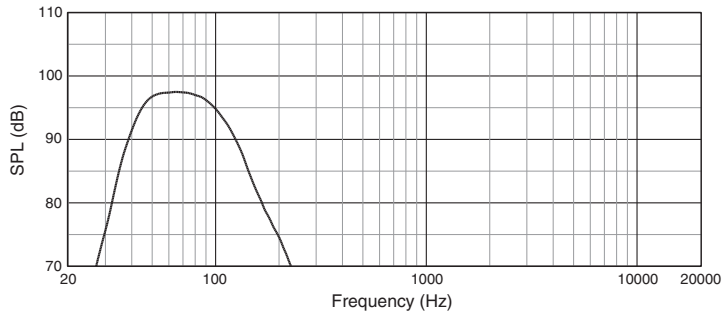
Specifications:

System Type:	Self powered 18", bass-reflex design
Frequency Range (-10 dB):	36 Hz - 130 Hz
Frequency Response (±3 dB):	42 Hz - 100 Hz
Crossover Frequency:	120 Hz (HPF selectable on outputs)
System Power Rating:	500 W continuous, 1000 W peak
Distortion:	Less than 0.1% at rated power
Maximum SPL:	129 dB
Signal indicators:	Limit: Red LED indicates input overload condition Signal: Green LED indicates signal present
Input Gain:	- Infinity to +4 dBu
Input Impedance:	Nominal 20k Ohms (balanced)
Polarity:	0° or 180° phase shift
LF Driver:	1 x JBL 268G 460 mm (18") Differential Drive® integrated woofer with dual voice coils, 4 ohm impedance
Enclosure:	18 mm, plywood
Suspension / Mounting:	36 mm pole socket on top
Finish:	DuraFlex™ finish
Grille:	Powder coated perforated steel with acoustically transparent black screen backing.
Input Connectors:	Balanced XLRs with loop through (stereo) to balanced XLR satellite outputs. ¼" Speaker level input.
XLR Pin Assignments:	Pin 2 (+), Pin 3 (-), Pin 1 (GND)
AC input:	120 – 230 V, 50/60 Hz
Dimensions (H x W x D):	617 mm x 569 mm x 652 mm (24.3 in x 22.4 in x 25.7 in)
Net Weight:	29.5 kg (65 lb)

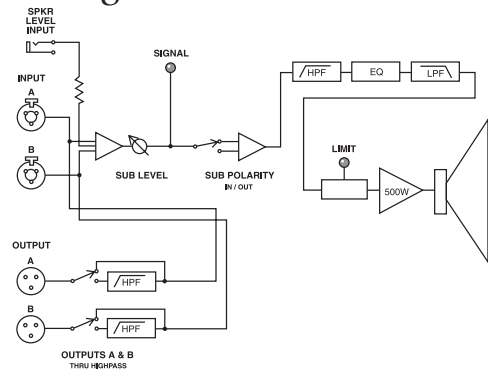
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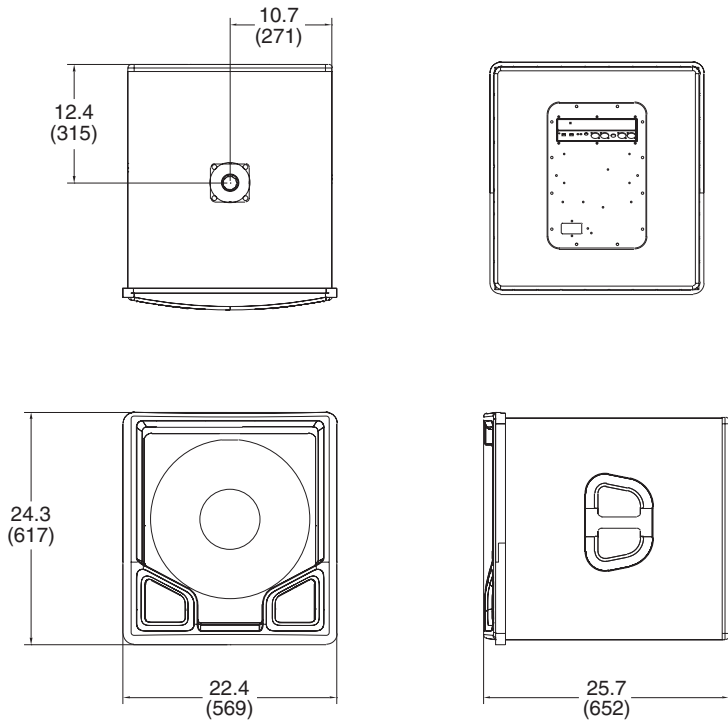
On Axis Frequency Response



Block Diagram

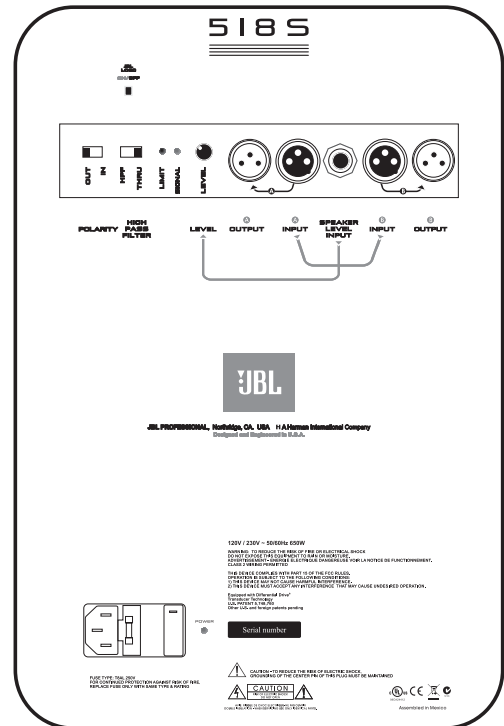


Dimensions



Dimensions in inches (mm)

Input Panel



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CRP 5M
09/08