

## SB SERIES



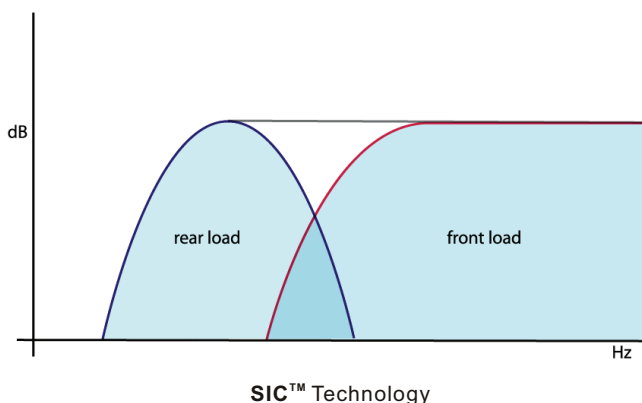
- Very high power subwoofer system
- High efficiency
- **SIC™** Technology
- Full power handling with low thermal compression
- Suitable for large and medium-power
- FOH and another applications
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

### TECHNOLOGY

Lotusline SB series are based on the latest electro acoustics developments and include new **SIC™** proprietary technology.

The SB218S is a subwoofer offering low frequencies reinforcement for medium to high power systems. It uses two 18 inch speakers loaded by Single Interactive Chamber.

**SIC™** technology, Single Interactive Chamber, increases bandwidth and efficiency while reducing total volume of vented bass loudspeaker by combining rear and front load in the same volume. Because rear and front load do not work in the same frequency region, it is possible, with a special calculation layout, to fuse both functions in only one. In practice, **SIC™** technology, by using this new physical approach, virtually suppresses one of the two volumes and dramatically reduce the total size of vent loaded subwoofer. Further advantage of **SIC™** technology is the better cooling of the loudspeakers due to the exceptionally large size of the vent aperture.



### APPLICATIONS

Lotusline SB 218S is a subwoofer offering low frequencies reinforcement for medium to high power systems. Its uses two 18 inch speakers loaded by Single Interactive Chamber.

This technology offers the advantages of using a small volume for the load of the speaker, high efficiency in the usable bandwidth and perfect control of the excursion of the diaphragm.

Using the same acoustic load concept that is found in the Lotusline LA series, the SB218S offers a very high dynamic capacity in a frequency range that intentionally excludes the infra low frequencies (below 28Hz). Its enclosure has four built-in wood handles.

The SB218S subwoofer with Single Interactive Chamber have been developed to offer the best versus frequency-extension to size ratio.

The SB218S provides a very dynamic and punchy sound reproduction for the sound effects that are commonly found in electronic music where the whole dynamic capacity of systems is used. This subwoofer offers full flexibility for low frequency reinforcement of the Lotusline speakers and the Line Array systems.

The SB218S is also ideal for Stadiums, arenas, and concert halls, Medium to large theatres, Cinema and nightclubs, multi-purpose venues or corporate events.

**FEATURES**

	<b>Low Section</b>
Frequency range with processor ( $\pm 3$ dB)	28 Hz to 80/250 Hz
Frequency range without processor ( $\pm 3$ dB)	32 Hz to 80/250 Hz
Sensitivity@1W/1m, f>80Hz <sup>1</sup>	103 dB SPL
Maximum continuous level at 1m, f>80Hz <sup>2</sup>	137 dB SPL
Peak level at 1m, f>65Hz	141 dB SPL
Nominal directivity @ -6dB <sup>3</sup>	-----
Nominal impedance	4 Ohms

**COMPONENTS**

Transducers	2 x 18" weatherproof loudspeakers
Coil diameter	101.6 mm
Type of load	SIC™ Bass reflex

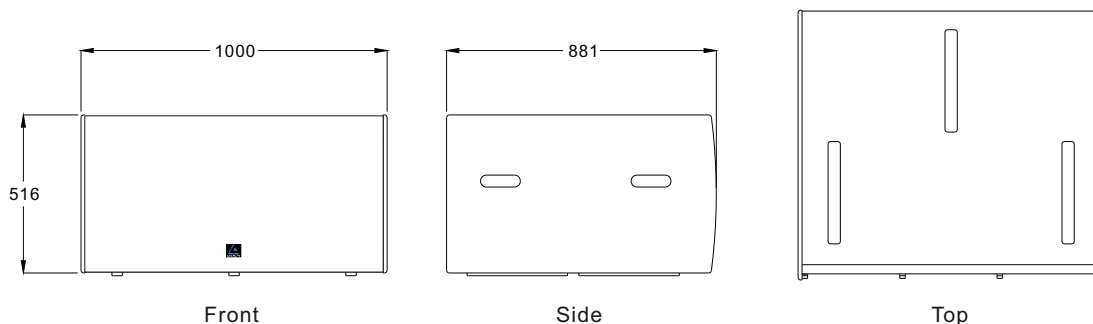
**POWER**

Recommended amps	1500 to 3000W into 4 Ohms
Peak	6000W
AES	2400W

**CONSTRUCTION AND CHARACTERISTICS**

Cabinet	18mm birch plywood with internal reinforcements
Crossover	The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics.
Finish	Black, impact resistant structured and water paint coating
Protection grill	Acoustically transparent perforated steel, 1.8mm thick
Front face	Black, woven, heavy duty fabric
Connectors	2 x Neutrik Speakon NL4MP
Handles	4 wood integrated handles
Rigging	Option
Dimensions (H x W x D)	516 x 1000 x 881 mm
Net unit weight	84.2 kg 185.6 lb
Gross weight, packed	90.2 kg 198.9 lb

**CAD Drawings**



1. Sensitivity is the average SPL measured over the component's rated bandwidth
2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the component's rated bandwidth
3. The SPEAKON cables are wired, hot pin 1+, cold pin 1-.

**LIMITED WARRANTY**

Lotusline loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of Lotusline, the defective item will be repaired/replaced with no charge for materials/labor. The item is to be adequately packaged and dispatched, pre-paid, to a Lotusline authorized distributor/service center. Unauthorized repair shall void the warranty. This Lotusline warranty does not cover cosmetics or finish and does not apply to any items which in Lotusline's opinion have failed due to user abuse, accidents, modifications or any type of misuse.



**LOTUSLINE  
ACOUSTICS**