



### Description

The SBLA12 is a compact line array enclosure designed to bring optimal superb next-generation line array performance to medium - large scale, concert, theatre and commercial events. It meets and exceeds the need for a high power, high bass, high impact system that is both versatile and scalable for a very wide range of applications in the live sound, touring, corporate and fixed installation fields. The SBLA12 grids give users the option for the system to be flown or ground stacked as required.

Though compact in size, the SBLA12 is a full-bandwidth system and may be used without subwoofers in many applications. Where additional low frequency extension is required, the SBLA12 may be complemented by the SBLA28SUB which can be flown or ground stacked.

### Components

The SBLA12 is a 3-way system that combines line array principles with innovative horn loading techniques to produce a very powerful compact line array with impressive dynamic impact.

The LF section of the SBLA12 comprises a 12" (300mm)/ 4" (102mm) voice coil folded horn design driver to extend the LF output to below the natural cut-off point of the horn.

The MF section of the SBLA12 utilizes 2 x 6.5" (165mm)/ 2" (51mm) voice coil drivers to produce a highly efficient gain of 106dB at 1m for a 1W input.

The HF section is composed of 3 x 1", 1.75" exit Neodymium magnet, titanium diaphragm compression driver horn elements to produce a low-curvature vertical wave front with an efficiency of 109dB at 1m for a 1W input. This optimal HF curvature enables SBLA12 enclosures within the array to be splayed up to 8° without introducing gaps in the HF vertical coverage.

### Specifications

<b>Type:</b>	12" Passive, Three Way, Tri-amp Line Array Enclosure
<b>Coverage Pattern:</b>	100° (Horizontal), 8° (Vertical)
<b>Components / Drivers</b>	Driver (LF): 1 x 12", 4" VC, Folded Horn Driver (MF): 2 x 6.5" 2" VC, Mid Front Loaded Driver (HF): 3 x 1" Throat, 1.75" VC Titanium Diaphragm, Neodymium Magnet Compression Driver on Low Distortion Horn
<b>Power Ratings</b>	Power Ratings (LF): 500W Continuous, 2000W Peak Power Ratings (MF): 300W Continuous, 1200W Peak Power Ratings (HF): 180W Continuous, 720W Peak
<b>System Frequency Response:</b>	65Hz-19kHz
<b>Drivers Frequency Response</b>	(LF): 60Hz-3KHz (MF): 200Hz-5KHz (HF): 1.5KHz-19KHz
<b>Drivers Sensitivity</b>	(LF): 98dB / 1W / 1m (MF): 100dB / 1W / 1m (HF): 108dB / 1W / 1m
<b>Nominal Impedance</b>	(LF): 8Ω (MF): 8Ω (HF): 24Ω
<b>Component(s) Impedance:</b>	(LF): 8Ω (MF): 16Ω (HF): 8Ω
<b>Recommended Crossover:</b>	(LF): 50Hz-460Hz, -24dB/oct (MF): 460-2.2kHz, -24dB/oct (HF): 2.2kHz-19.8kHz, -24dB/oct
<b>SPL</b>	(LF): 129dB Continuous, 135dB Peak (MF): 130dB Continuous, 136dB Peak (HF): 130dB Continuous, 136dB Peak
<b>Recommended Amplifier:</b>	(LF): 1200W – 1600W into 4Ω (MF): 800W-1200W into 4Ω (HF): 360W- 480W into 8Ω
<b>Connectors:</b>	2 x NL8 Neutrik Connectors
<b>Pin Outs</b>	PIN 1+: N/A PIN 1-: N/A PIN 2+: LF PIN 2-: LF PIN 3+: MF PIN 3-: MF PIN 4+: HF PIN 4-: HF
<b>Rigging:</b>	Fast Integral adjustable rigging system with variable splay angles (0° to 8°)
<b>Enclosure Construction:</b>	18mm Multi-Plywood
<b>Finish Options:</b>	Black Polyurethane Paint
<b>Dimensions (W*H*D):</b>	39.4" x 15.7" x (13") x 22" 1000 x 400 (326) x 550 mm
<b>Net Weight:</b>	138 lbs. (62.5 kg)

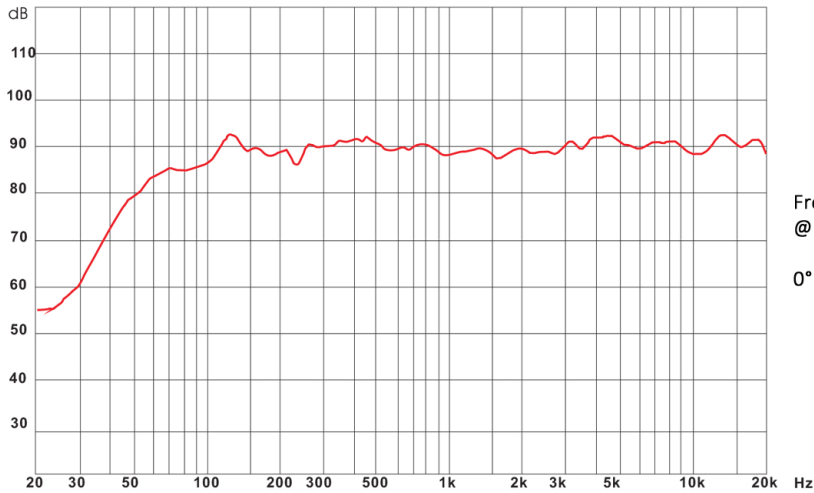
#### Notes:

(1) Measured on-axis in half space at 2 metres, then referred to 1 metre.

(2) EIA Standard RS-426-A-1980.

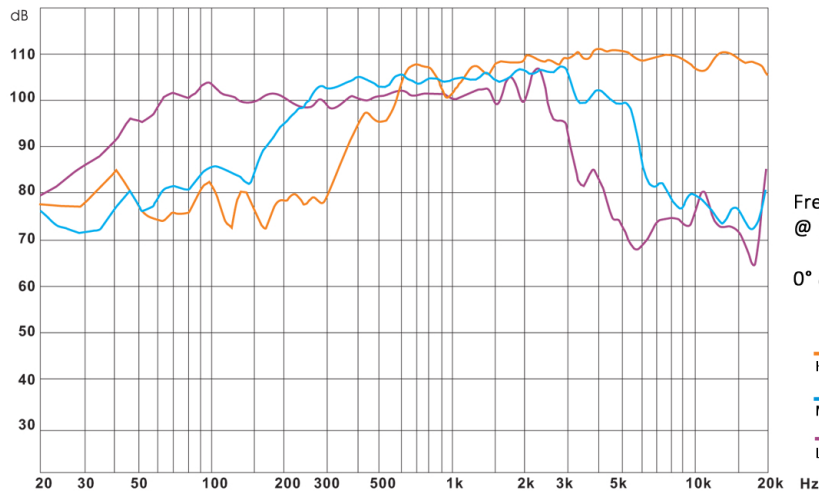
(3) Measured in half space conditions at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.

(4) Measured in half space conditions at 2 metres using band limited pink noise, then referred to 1 metre.



Free-Field On-Axis  
@ 1m, 2.83V  
0° & 1/3 Oct, Smoothing

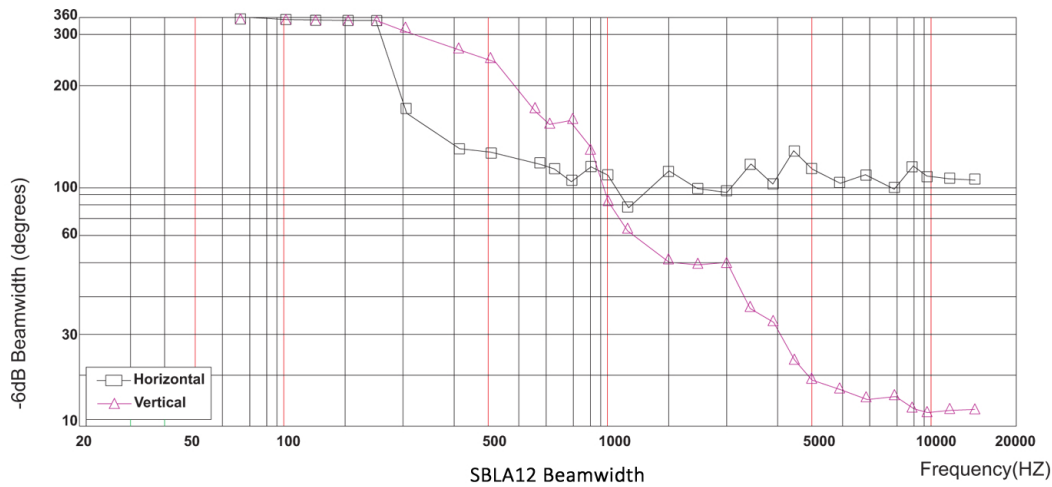
SBLA12 Frequency Response (dB-Hz) with EQ



Free-Field On-Axis  
@ 1m, 2.83V  
0° & 1/3 Oct, Smoothing

HIGH FREQUENCY  
MEDIUM FREQUENCY  
LOW FREQUENCY

SBLA12 Frequency Response (dB-Hz) without EQ



Horizontal  
Vertical

SBLA12 Beamwidth

Frequency(HZ)

### 8 PIN Input:

- 4-: HF
- 4+: HF
- 3-: MF
- 3+: MF
- 2-: LF
- 2+: LF
- 1-: N/A (For SUB)
- 1+: N/A (For SUB)

10u/400V

8Ω

8Ω

8Ω

HF Section: 3 x 2"

- Neodymium Magnet
- Titanium Diaphragm

HF Impedance: 24Ω  
Driver Impedance: 8Ω

16Ω

MF Section: 2 x 6.5"  
• Phase Correction

MF Impedance: 8Ω  
MF Driver Impedance: 16Ω

16Ω

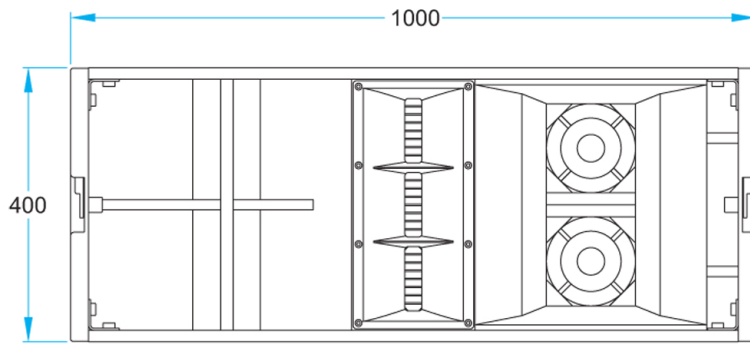
### 8 PIN Output:

- 4-: HF
- 4+: HF
- 3-: MF
- 3+: MF
- 2-: LF
- 2+: LF
- 1-: N/A (For SUB)
- 1+: N/A (For SUB)

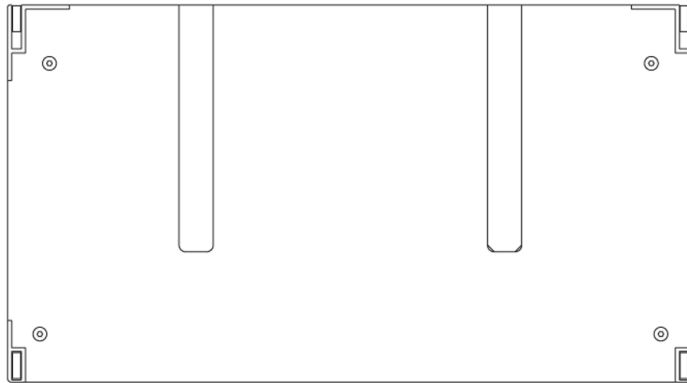
8Ω

LF Section: 1 x 12"

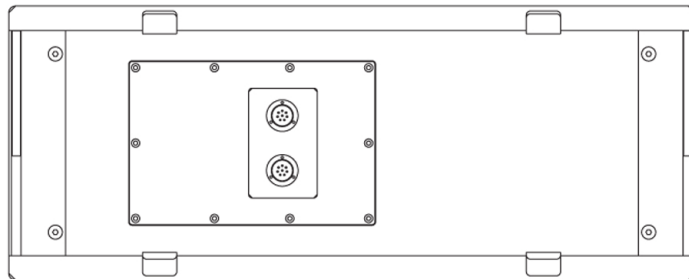
LF Impedance: 8Ω  
Driver Impedance: 8Ω



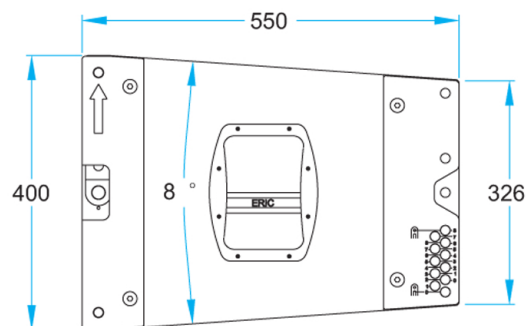
Front View



Top View



Rear View



Side View