



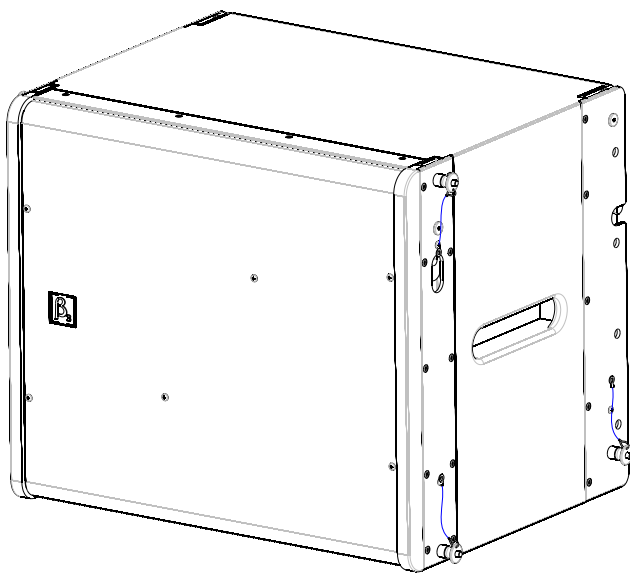
Beta Three

SLA212Ba

Dual 12" Active Subwoofer

SLA Series Line Array System

User Manual





UM-SLA212Ba-20181011 Ver A



SAFETY INSTRUCTIONS

PLEASE READ THIS MANUAL FIRST

Thank you for a buying β_3 product. Read this manual first as it will help you operate the system properly. Please keep this manual for future reference.

⚠ WARNING: *This product must be installed by professionals. When using hanging brackets or rigging other than those supplied with the product, please ensure they comply with the local safety codes.*

	CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		

	AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.		

⚠ *The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.*

⚠ ATTENTION: *Don't refit the system or spare parts without being authorized as this will void the warranty.*

⚠ WARNING: *Don't place naked flames (such as candles) close to the equipment.*

1. Read the instruction manual first before using this product.
2. Please keep this manual for future reference
3. Pay attention to all warnings.
4. Obey all operating instructions.
5. Do not expose this product to rain or moisture.
6. Clean this equipment with a dry cloth.
7. Do not block any ventilation openings. Install according to manufacturer's instructions .
8. Do not install this product near any heat source, such as a, heater, burner, or any other equipment with heat radiation .
9. Only use spare parts supplied by the manufacturer.
10. Pay attention to the safety symbol on the outside of the cover.



CONTENT

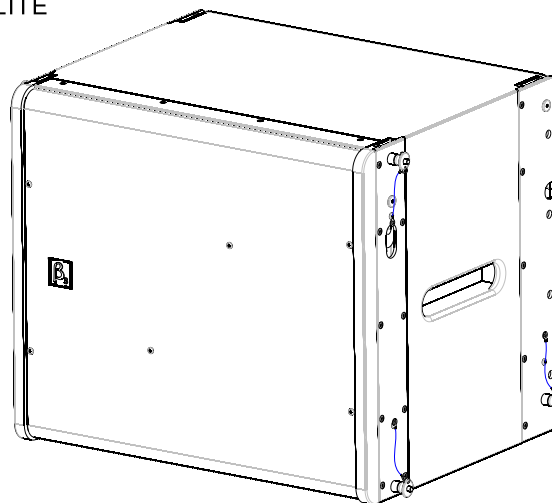
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SLA212Ba

Dual 12" Active Subwoofer

Main Features:

- Imported PowerSoft amplifier module: LITEMOD HV+DSP-LITE
- LITEMOD HV is a compact and powerful functions amplifier module which can be loaded under high impedance with 700w@8ohm or 1400w@16ohm bridge mode, it's adopted compact PFC power with high output to ensure reliability and conformity under all working situations.
- DSP-LITE is a 2 inputs / 3 outputs high performance processing board, it's integrating an extremely compact interface panel compatible with mono-in/link-out or stereo-in configurations. The built-in USB port allows to access DSP-Lite processing capabilities directly from the PC running Armonia Pro Audio Suite™ software, to easily program and store up to 4 presets that can be selected by the end user.
- Dual 12" bass reflex active bass speaker.
- Frequency response(-3dB)55Hz-150Hz.
- LF SPL: 94dB, Max SPL: 126dB.
- RMS: 800W, PEAK: 3200W.
- The newly paint with advanced spraying technics makes cabinet more durable.
- The customized flying frame and rigging parts of SLA212Ba and SLA10Ha which provide easy installation and take down.
- The bass reflex design of SA212Ba decreases the wind interference to low frequency and improve the sound quality.
- The Customized flying frame can be used to hang up or stacking, easy for installation and take down.
- SLA212Ba sound quality: Clean and powerful.



Description

β₃® SLA212Ba is a compact subwoofer. It is used in middle to large size venues demanding high SPL and reliability. It helps building perfect playback system cooperating with T Series full range products.

Band-pass design helps SLA212Ba perform high SPL with small volume. The driver uses high powered 100mm diameter voice coil which is wrapped by copper wires outside. Voice coil Skelton is made of TIL material that improves the tolerance of voice coil power suffering. Ferrite magnetic circuit provides very high BL and line magnetic circuit.

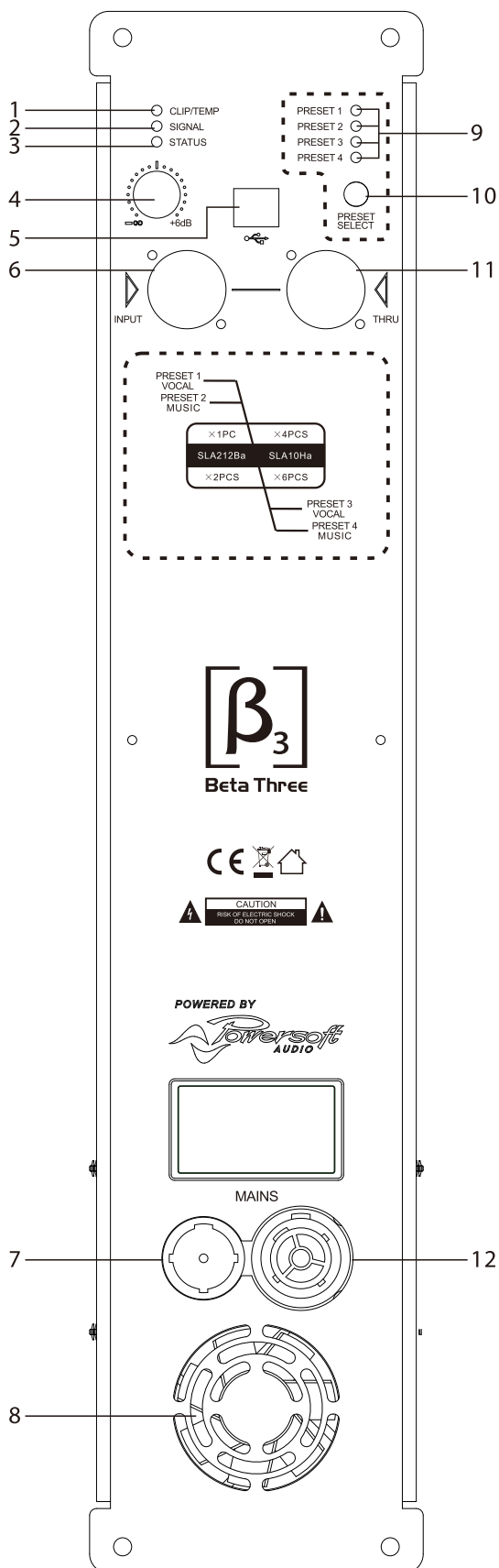
Power compression reduces by good heat radiating performance and harmonic distortion also does so by iron choking ring limiting current. Rated power can reach 8000w and short max power is up to 32000w (GB/T9396-1996 Standard).

Applications:

- Arena ■ Theater ■ Large-size gymnasium
- Living performance venues

Power Module Instructions

1. CLIP/TEMP Indicator
2. SIGNAL Indicator
3. STATUS Indicator
4. Master Volume
5. USB Port
6. Signal Input
7. Power Supply Input
8. Heat Sink
9. Preset Indicator
10. Preset Select Indicator
11. Signal Output
12. Power Supply Output



Installation Guidance

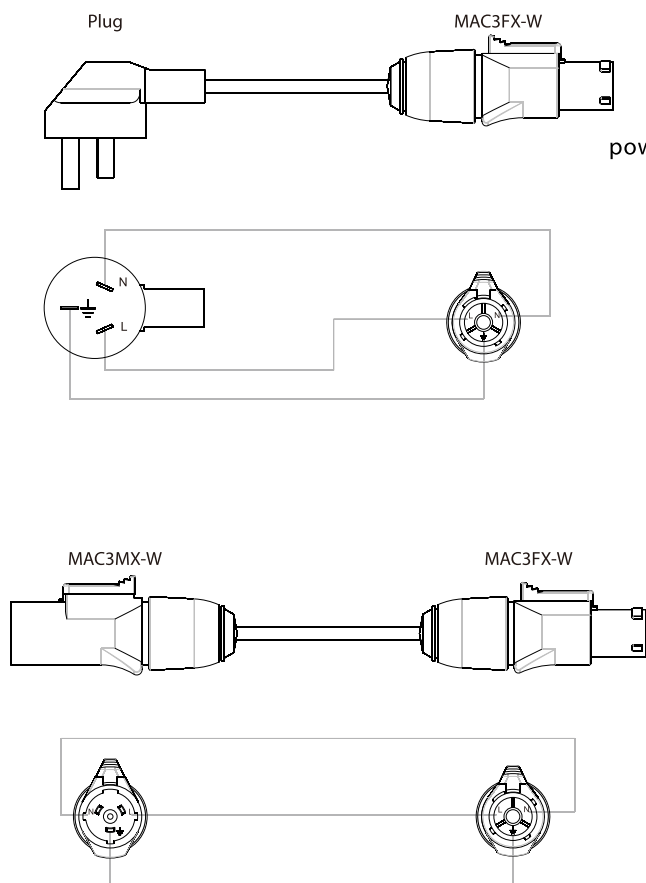
SLA212Ba and SLA10Ha has customized SLF1 flying frame which enables the cluster of 1+4 and 2+6 speakers to suit different applications.

The suspension system consists of SLF flying frame, SLA212Ba and SLA10Ha speaker rigging parts, angle adjustment plate and lock pins.

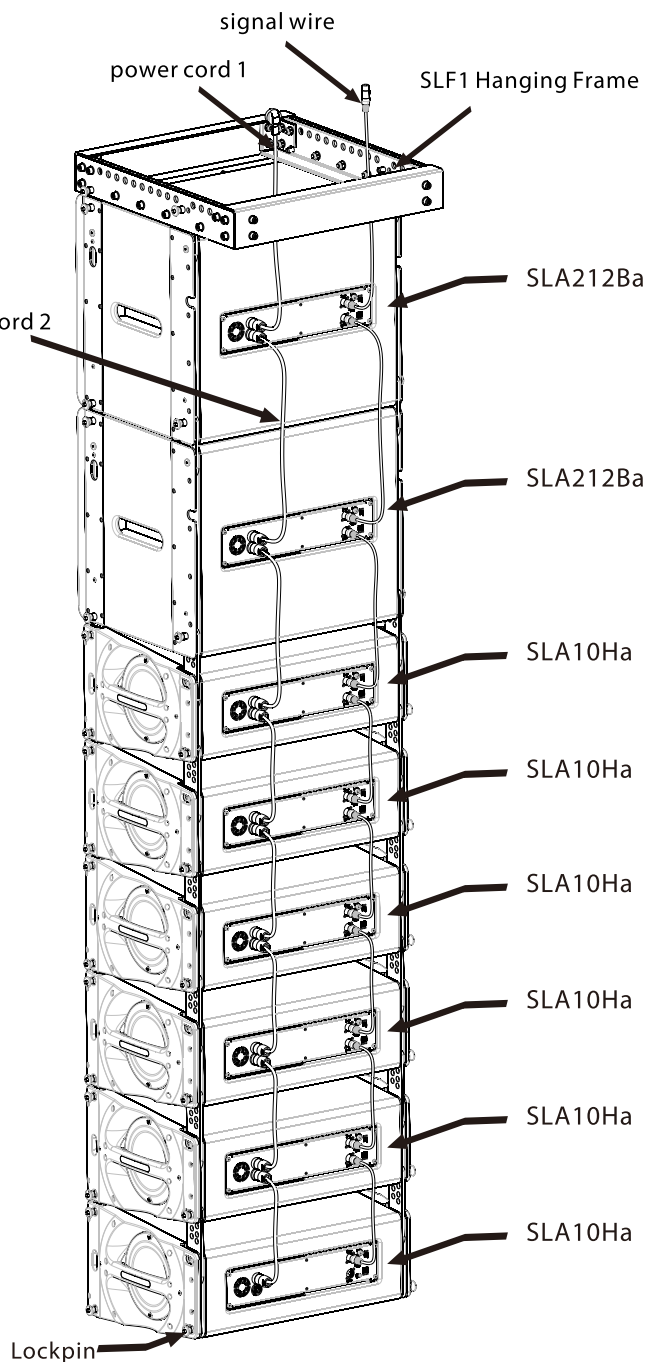
The rear rigging parts are fixed on cabinet for easy and fast vertical angle adjustment between speakers.

SLF1 frame is made of steel and maximum load weight is 660KG.

Power line wiring diagram:



1(SLA212Ba)+4(SLA10Ha)



Warning: Make sure the mounting accessories safety factor not less than 5:1 or meet the local standard during installation.

Specification Sheet:

Frequency Response(-3dB):	55Hz-150Hz
Max SPL(1m):	120dB/126dB(PEAK)
System configuration:	1+4+lying frame, 2+6+lying frame
Impedance:	$8\Omega \times 2$
Power:	$400W \times 2$
Connector:	XLR output
Input connector:	TRS+XLR(Combo)
Input impedance:	10Kohm balanced input
Cable:	Pin1: ground Pin2: Signal+, Pin2: Signal-
Input Source EMF:	$0.775V \pm 10\%$ (80Hz/Rated output power)
Input overloaded EMF:	≥ 8 time of rated EMF (f=80Hz, THD, 1%)
Control port:	N/A
Heat radiation:	Cooling fan
Power cable:	Power Con, Plug
Voltage range:	$100-240V \pm 10\%$
Power consumption(static):	$22W \pm 3W$
Power consumption(rated):	$780W \pm 10\%$
Cabinet:	Trapezoidal Cabinet
Installation:	Specialized Hardware
Surface:	Black Polyurethane painting for cabinet & Black Powder coated grille, Grill with cloth
Cabinet dimension(W×D×H):	$616 \times 487 \times 530mm$
Package dimension(W×D×H):	$726 \times 598 \times 650mm$
N.W.(PC):	45kg(99.0 lb) Hanging Frame: 19.0kg(41.8 lb)
G.W.(PC):	49kg(107.8 lb) Hanging Frame: 21.0kg(46.2 lb)

Speaker Testing Method

1. Frequency response

Use Pink noise to test the speaker in the anechoic room, adjust the level to make the speaker work at its rated impedance and the power output is 1W, then test the frequency response 1m away from the speaker.

2. Sensitivity

Use full range Pink noise which was modified by EQ curve to test the speaker in the anechoic room, enlarge the signal to make the speaker work at its rated impedance and the power output is 1W, then test the sensitivity 1m away from the speaker.

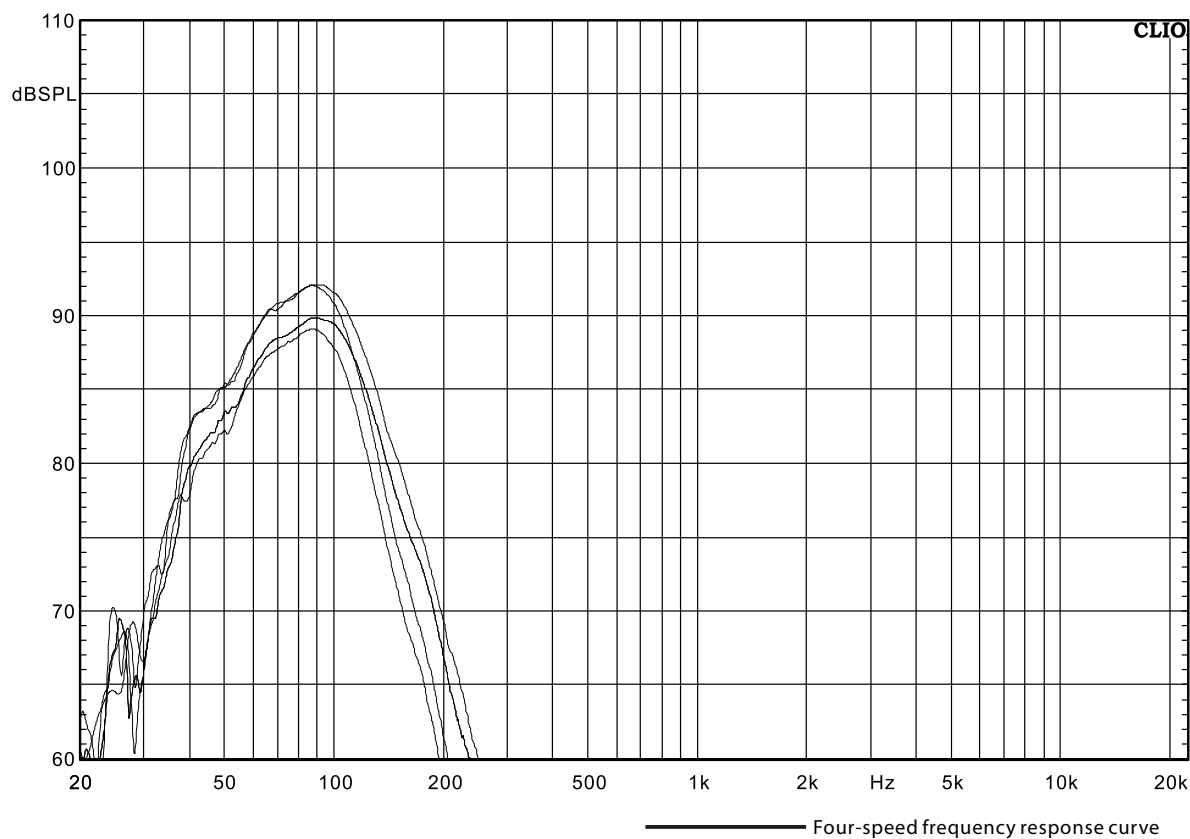
3. MAX.SPL

Use full range Pink noise which was modified by EQ curve to test the speaker in the anechoic room, enlarge the signal to make the speaker work at its instant power output level, then test the SPL 1m away from the speaker.

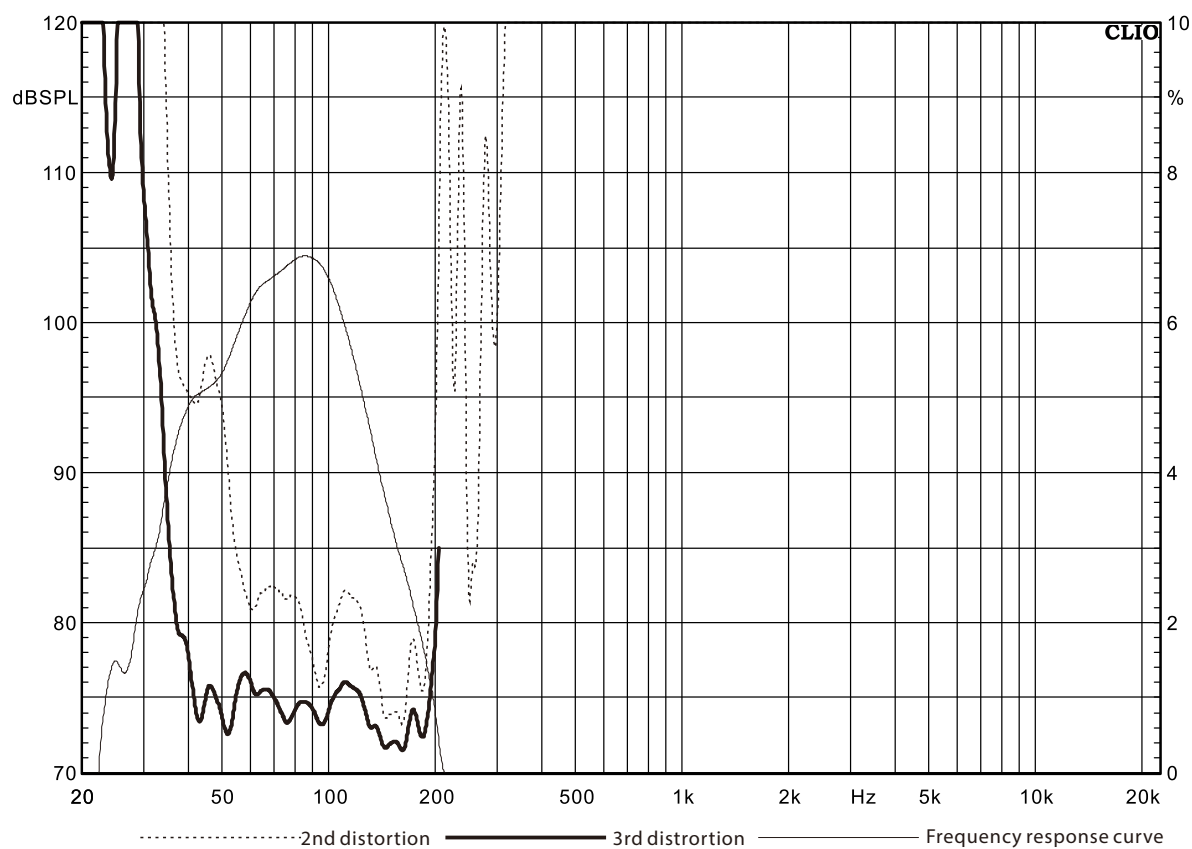
4. Rated Power

Use the pink noise according to IEC#268-5 to test the speaker, enlarge the signal for continuous 100hours, the rated Power is the power when the speaker will not incur hot damage or mechanics damage.

Frequency Response/Phase Curve

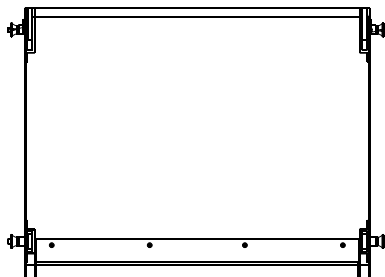


10% Power distortion curve

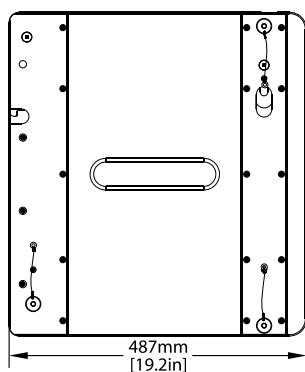


2D Dimension

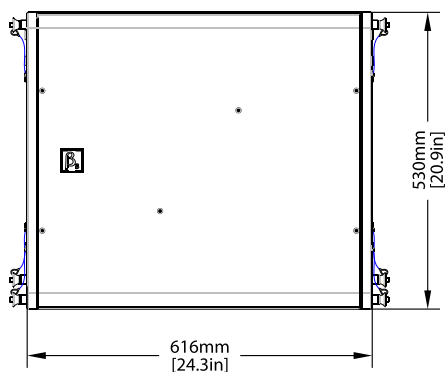
Top view



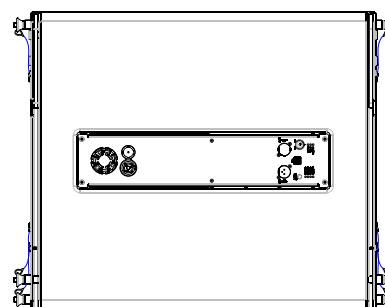
Side view



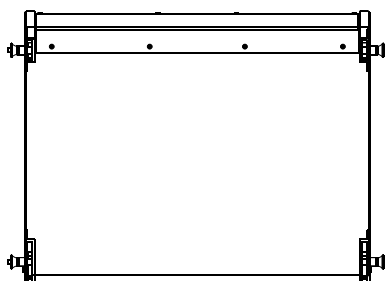
Front view



Back view



Bottom view



Notes:



Beta Three