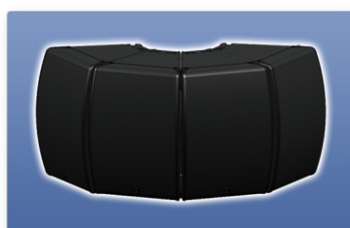


# LOTUSLINE

France  
2025



The key to Sound



The key to Sound

## History & Innovation

At the end of 2005, a professional range of high quality loudspeakers was born – LOTUSLINE.

- 2006** LOTUSLINE has applied three proprietary technologies in three series:
- 2007** SIC™ technology in Lotusline SB series  
MVC™ technology in Lotusline MA series  
SHM™ collinear waveguide technology in Lotusline LA system
- 2009** LOTUSLINE acquired its own compiler software EASE Focus, called LA system.
- 2011** LOTUSLINE applied a new proprietary technology CLS™ (Coaxial line source) technology.
- 2013** LOTUSLINE has licensed EASE Focus 2 and applied a new proprietary technology, SSA™ (Spherical source array) SSA based cabinets are arrayable asymmetrical elements to be used unitary or coupled up to full hemispherical perfectly coherent point source.
- 2016** LOTUSLINE first proposed the concept of spherical waves. This technology was first applied to the SSA series.
- 2021** LOTUSLINE officially authorized the establishment of the Asia-Pacific Operations Center in Guangzhou, China. This operations center works closely with Europe to become a big family.
- 2024** LOTUSLINE first proposed the concept of precise adjustable radiation and adaptive adjustment, to fully prepare for the innovative application of AI in the field of professional acoustics in the future

LOTUSLINE systems are state of the art innovative products and offer the sound designer, sophisticated but easy to use electro acoustic tools, which are the key to sound.

## Contact & Support

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Forget the system and enjoy the sound !

## Coaxial Technology

Classical arrangement of two way loudspeakers uses separate transducers positioned on a common front baffle. In the transition frequency region, due to the difference of path length between the listening point and the two separate sources, spatial frequency answer cannot be homogenous. This problem is particularly sensitive for short field listening such as stage monitoring and small venues.

By superposing both of the two sources, coaxial technology eliminates the problem and creates a perfect homogenous acoustic field on all the speaker coverage as well horizontally as vertically.

The advantages of the coaxial approach include: single point source radiation, total wavefront coherency at all frequencies and superimposed LF/HF dispersion characteristics that are free of polar lobbing effects typical of traditional horn and woofer combinations. The net result is natural, studio monitor level sound quality that is ideal for proximity use.

Lotusline MA & MQ series include two different coaxial arrangements.

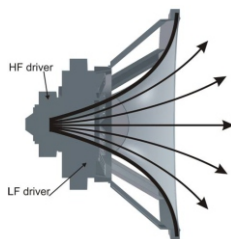
The first one uses the main driver cone as horn load for the HF driver.

This arrangement offer the largest possible conical coherent coverage and is used in MA8v2, MA10v2, MA12v2 and MA15v2.

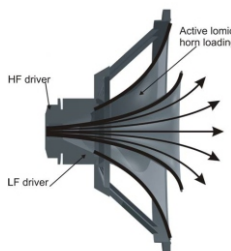
The second one uses a separate horn for the HF driver.

This arrangement offers smaller aperture angles and higher lomid efficiency by loading the main cone in its throat region. We call it "active" horn loading.

This arrangement is used in MQ60.



Standard coaxial arrangement



Coaxial active horn arrangement

## Line Source Technology

All line arrays are not line sources ! What's the difference ?

A true line source array generate an homogenous acoustic field on all its coverage area, in all its frequency range and is free of interference problems. The net result is the same sound from near field to far field.

The conception of a true line source encounters a lot of technical problems the designer has to solve. The main one is the fusion of all individual sources in only one virtual line source in order to generate on all the frequency range a perfect free of lobbing effects toroidal wavefront. If the solution is evident for low frequencies, this is not the same piece of cake for high ones. The acoustical size of a sound source is close to the wavelength of the generated signal. At 100Hz, the wavelength is 3.4m, so, two speakers distant of 1.2m (half the wavelength) create a perfect coherent source. At 1kHz, the wavelength is only 34cm and these two speakers are no more a coherent source and generate interferences. At 10kHz, the wavelength is 3.4cm and there are no speakers able to realize the performance to be smaller than 1.7cm in the real professional sound reinforcement world.

Many improvements have been made in line source technology, but the physical remain the same.

SHM™ and SIC™, Lotusline proprietary technologies applied in LA series, are fundamental improvements in professional loudspeaker design.

By respecting line source rules and all other acoustic laws, Lotusline LA series are true line source line arrays with a real behaviour close to the mathematical theory.

## SHM™ Technology

**SHM™** (Single Horn loaded Midrange) improve dramatically midrange bandwidth and efficiency by avoiding multiple components dispersion and using collinear mid and hi frequency horns layout.

First line array uses mid drivers on plane baffle. Small improvements in efficiency have been made by using compression load midrange directly in the front common waveguide, but creating irregularities in frequency response, and dispersion in characteristics due to the multiplication of components. Actually, coaxial midrange equipped with rear standard HF driver is used in common acoustic chamber imposing a long path to high frequency waves. Lotus Line Array uses the shortest possible design by positioning the toroidal HF drivers in front of the midrange driver.

**SHM™** technology reduces the total harmonic distortion both in high frequencies by minimizing the length of waveguides and in low mid by increasing the radiating surface of the driver.



## CLS™ Technology

**CLS™** (Coaxial Line Source) technology is the definitive solution for two way configuration line source symmetrical array systems.

Standard two way line source arrays using only one low frequency driver are asymmetrical cabinets, **CLS™** based Lotusline CL series are symmetrical and optimized minimum front baffle sized.

**CLS™** technology offers all advantages of coaxial active horn arrangement applied to line source array systems. It means, minimum front baffle size, perfect symmetry of the baffle and so, perfect symmetry of the coverage.

Lotusline CL series uses **CLS™** technology, increasing the efficiency in low mid region, shaping the wavefront from spherical to ovoid and increasing consequently the maximum crossover frequency in vertical coupling.

## SSA™ Technology

**SSA™** (Spherical Source Array) technology is Lotusline's answer to an old question: How to build a high SPL, compact and configurable, true point source system?

**SSA™** cabinets are mathematically equivalent to a portion of a spherical segment whose acoustic centre at the centre of the mother sphere. In more simple words, **SSA™** cabinets are like pieces of orange, they can be used individually and can also rebuild a complete fruit.

**SSA™** cabinets are perfectly arrayable without audible interferences, even in very high frequencies.

Each cabinet can be used unitary for covering small areas or coupled with other **SSA™** cabinets for larger ones.

## MVC™ Technology

**MVC™** (Multi Vent Convection) technology, increase the power handling capacity of vented loudspeaker by combining acoustical and cooling functions of vents. Multiple curved vents are placed around the main loudspeaker offering a natural air convection flow lowering the temperature of the voice coil in any working position. **MVC™** equipped speakers are much more thermal breakdown proofed than standard ones, and decrease thermal compression by lowering nominal temperature of the moving coil.

The **MVC™** (multi vent convection) technology, allows the Lotusline CL, MQ and MA series to handle nominal full power capacity in any working position.



## SIC™ Technology

**SIC™** (Single Interactive Chamber) technology, 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.

### Lotusline Technologies

#### **SIC™** technology used in SB Series

- Best versus frequency-extension to size ratio
- Hi efficiency
- Better cooling

#### **SSA™, MVC™** technologies used in SSA Series

- Spherical source array system
- Point source arrangement
- Better cooling, lo thermal compression in any working position

#### **MVC™** and Coaxial technologies used in MQ and MA Series

- Point source, regular spatial response, perfect acoustic field
- Better cooling, lo thermal compression in any working position

#### **SHM™** and line source technologies used in LA Series

- True line source system
- Low distortion at hi SPL
- Perfectly coherent arrays controlling vertical opening

#### **CLS™, MVC™** and Coaxial technologies used in CL Series

- True line source system
- Point source, regular spatial response, perfect acoustic field
- Better cooling, lo thermal compression in any working position





# Line Source system

## LA series

The key to Sound

### LA 10v2 & LA 20v2

Lotusline LA series are based on the latest electro acoustics developments and include SHM™ and SIC™ proprietary technologies.

SHM™ (Single Horn loaded Midrange) improve dramatically midrange bandwidth and efficiency by avoiding multiple components dispersion and using collinear mid and hi frequency horns layout.

**First line array uses mid drivers on plane baffle. Small improvements in efficiency have been made by using compression load midrange directly in the front common waveguide, but creating irregularities in frequency response, and dispersion in characteristics due to the multiplication of components. Actually, coaxial midrange equipped with rear standard HF driver is used in common acoustic chamber imposing a long path to high frequency waves. Lotusline Line Array uses the shortest possible design by positioning the toroidal HF drivers in front of the midrange driver.**

SHM™ technology reduces the total harmonic distortion both in high frequencies by minimizing the length of waveguides and in low mid by increasing the radiating surface of the driver.

Lotusline Line Array are high efficient systems, thanks to the entirely horn loaded design, and the use of the best modern European custom build transducers. Combined with the true line source design of Lotusline Line Array, high sound pressure levels can be obtained in far field with the best tonal balance on the whole system coverage.

The Lotusline LA series three points hanging compression mechanism also reduces needed floor surface and saves installation time due to the straight vertical array configuration used during setup. The final curvature is quickly and easily obtained when the system is on its working position. By releasing the compression on the rear point, Lotusline Line Array returns to the straight vertical position in a few seconds and is ready for a fast disassembly.

Due to its exceptional sound quality, its power capacity, and its fast and easy rigging, Lotusline Line Array series are intended for daily use in touring companies, as well as for permanent installation in theatres, congress centres or arenas.

### Fly rigging accessories

### Easefocus



Can be upload to 24 LA cabinets

LAFM01/02

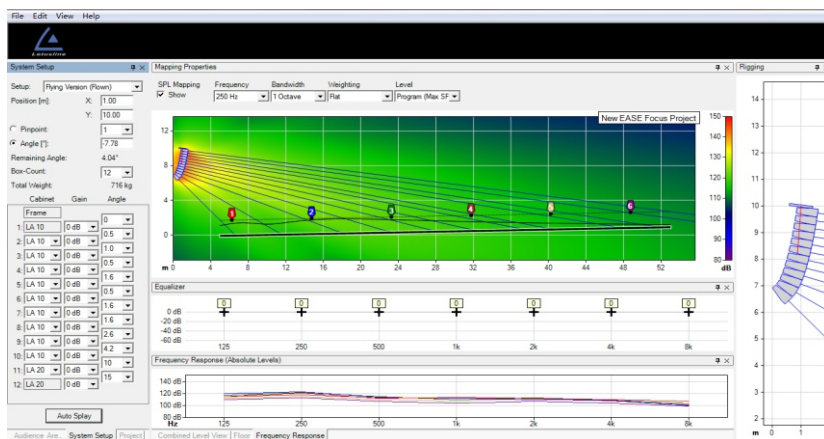
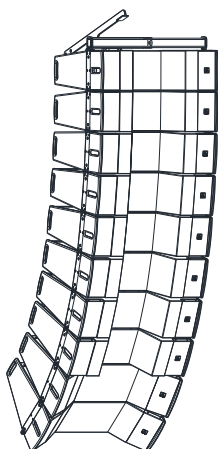


Can be upload to 24 LA cabinets

LAFM03



LACO2

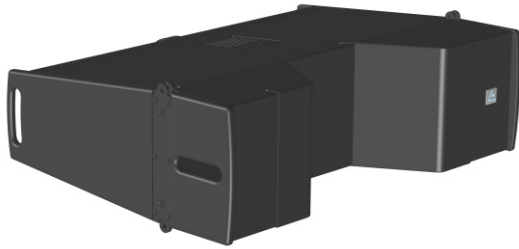


# LA Series



The key to Sound

## LA 10v2 Line source system



- Three way line source system
- Two 10 inch Bass Drivers
- One 8 inch Midrange driver
- Two compression neodymium planar wave drivers
- SHM™ Collinear arrangement
- 60° horizontal coverage and 0° to 10° vertical coverage
- Dispersion controlled from 250Hz
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

Lotusline LA10v2 are line array modules designed for variable curvature vertical tangent array, including SIC™ technology and SHM™ proprietary technology, able to build long throw line sources system .

The LA10v2 is an active three-way loudspeaker system. The low section comprises two 10 inch drivers loaded by a 4th order SIC™ bass reflex enclosure. The mid section comprises one 8 inch driver, the high section includes two 1.75"(44.4mm coil) neodymium high frequency compression drivers mounted on the SHM™ waveguide which provides a 60° horizontal coverage and 0° to 10° vertical coverage,

The 60° horizontal coverage and 0° to 10° vertical coverage offer the sound designer the best versatility for any precisely designed installation. Lotusline LA10v2 are completely compatible with Lotusline subwoofers series and can be stacked directly on anyone.

Due to its exceptional sound quality, its power capacity, and its fast and easy rigging, Lotusline Line Array series are intended for daily use in touring companies, as well as for permanent installation in theatres, congress centres or arenas.

## Specifications

### FEATURES

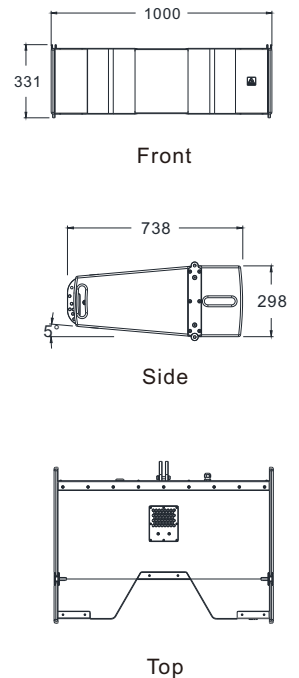
|  | Low Section  | Mid Section       | High Section      |
|--|--|-------------------|-------------------|
| Frequency range with processor (±3dB)            | 65 Hz to 400 Hz  | 200 Hz to 1500 Hz | 1200 Hz to 19 kHz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>           | 105 dB SPL   | 106 dB SPL        | 113 dB SPL        |
| Maximum continuous level at 1m <sup>2</sup>      | 132 dB SPL   | 129 dB SPL        | 135 dB SPL        |
| Peak level at 1m, f>65Hz                         | 138 dB SPL   | 135 dB SPL        | 141 dB SPL        |
| Nominal impedance                                | 2 x 16 Ohms  | 16 Ohms           | 32 Ohms           |
| Nominal horizontal coverage@-6dB <sup>3</sup>    | 60°  |                   |                   |
| Unit nominal vertical coverage@-6dB <sup>3</sup> | 0° to 10°(0.5°,1°,1.7°,2.6°,4.2°,6.7°,8.5°,10°,inter-enclosure angles) |                   |                   |

### COMPONENTS

|                   | Low Section                       | Mid Section                      | High Section                     |
|-------------------|-----------------------------------|----------------------------------|----------------------------------|
| Transducers       | 2 x 10" weatherproof loudspeakers | 1 x 8" weatherproof loudspeakers | 2 x toroidal compression drivers |
| Coil diameter     | 77 mm                             | 45 mm                            | 44.4 mm                          |
| Type of load      | SIC™ Bass reflex                  | SHM™ horn                        | SHM™ horn                        |
| Power (AES/ Peak) | 500 W / 2000 W                    | 300 W / 1200 W                   | 160 W / 900 W                    |

### CONSTRUCTION & CHARACTERISTICS

|                        |   |
|------------------------|---|
| Cabinet                | 18mm birch plywood with internal braces |
| Crossover              | Factory presets                         |
| Connectors             | 50cm link cable, 1 x Speakon NL8MP      |
| Handles                | 4 wood integrated handles               |
| Rigging                | Proprietary 3 points compression system |
| Dimensions (H x W x D) | 331 x 1000 x 738 mm                     |
| Net unit weight        | 58 kg 128 lbs                           |
| Gross weight, packed   | 62 kg 137 lbs                           |



1. Sensitivity is the average SPL measured over the components rated bandwidth. LA series sensitivity are given for a minimum line of four units.  
 2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth  
 3. Directivity is averaged over the frequency range.  
 4. The SPEAKON connectors are wired as follow : LF1: hot pin 1+, cold pin 1-, LF2: hot pin 2+, cold pin 2-, MF: hot pin 3+, cold pin 3-, HF: hot pin 4+, cold pin 4-.

# LA Series



The key to Sound

## LA 20v2 Line source system



- Three way line source system
- Two 10 inch bass drivers
- One 8 inch midrange driver
- Two neodymium compression planar wave drivers
- SHM™ collinear arrangement
- 100° horizontal coverage and 10° to 20° vertical coverage
- Dispersion controlled from 250Hz
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

Lotusline LA20v2 are line array modules designed for variable curvature vertical tangent array as well as horizontal constant curvature horizontal tangent array, including SIC™ technology and SHM™ proprietary technology.

The LA20v2 is an active three-way loudspeaker system. The low section comprises two 10 inch driver loaded by a 4th order SIC™ bass reflex enclosure, The mid section comprises one 8 inch driver, the high section includes two 1.75"(44.4mm) coil, neodymium high compression drivers mounted on the SHM™ waveguide which provides a 100° horizontal coverage and 10° to 20° vertical coverage,

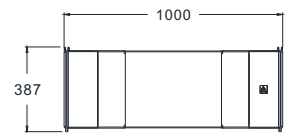
Designed to build medium throw line sources, the 100° horizontal coverage and 10° to 20° vertical coverage of LA20v2 perfectly complement LA10v2 line sources for downfill.

Composite arrangements of LA10v2 and LA20v2 are the best solution to cover any large audience area homogeneously.

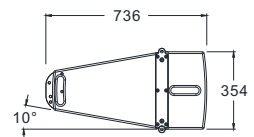
Lotusline LA20v2 are completely compatible with Lotusline subwoofers series and can be stacked directly on anyone.

## Specifications

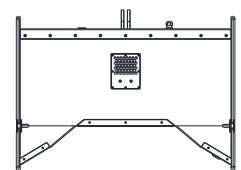
| FEATURES   | Low Section                                       | Mid Section                      | High Section                     |
|--|---|----------------------------------|----------------------------------|
| Frequency range with processor (±3dB)            | 65 Hz to 400 Hz                                   | 200 Hz to 1500 Hz                | 1200 Hz to 19 kHz                |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>           | 105 dB SPL  | 106 dB SPL                       | 111 dB SPL                       |
| Maximum continuous level at 1m <sup>2</sup>      | 132 dB SPL  | 129 dB SPL                       | 133 dB SPL                       |
| Peak level at 1m, f>65Hz                         | 138 dB SPL  | 135 dB SPL                       | 138 dB SPL                       |
| Nominal impedance                                | 2 x 16 Ohms                                       | 16 Ohms                          | 32 Ohms                          |
| Nominal horizontal coverage@-6dB <sup>3</sup>    | 100°  |                                  |                                  |
| Unit nominal vertical coverage@-6dB <sup>3</sup> | 10° to 20°(9°,11°,15°,20°,inter-enclosure angles) |                                  |                                  |
| COMPONENTS                                       |   |                                  |                                  |
| Transducers                                      | 2 x 10" weatherproof loudspeakers                 | 1 x 8" weatherproof loudspeakers | 2 x toroidal compression drivers |
| Coil diameter                                    | 77 mm   | 45 mm                            | 44.4 mm                          |
| Type of load                                     | SIC™ Bass reflex                                  | SHM™ horn                        | SHM™ horn                        |
| Power (AES/ Peak)                                | 500 W / 2000 W                                    | 300 W / 1200 W                   | 160 W / 900W                     |
| CONSTRUCTION & CHARACTERISTICS                   |   |                                  |                                  |
| Cabinet  | 18mm birch plywood with internal braces           |                                  |                                  |
| Crossover  | Factory presets                                   |                                  |                                  |
| Connectors                                       | 50cm link cable, 1 x Speakon NL8MP                |                                  |                                  |
| Handles  | 4 wood integrated handles                         |                                  |                                  |
| Rigging  | Proprietary 3 points compression system           |                                  |                                  |
| Dimensions (H x W x D)                           | 387 x 1000 x 736 mm                               |                                  |                                  |
| Net unit weight                                  | 58 kg 128 lbs                                     |                                  |                                  |
| Gross weight, packed                             | 62 kg 137 lbs                                     |                                  |                                  |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth. LA series sensitivity are given for a minimum line of four units.  
 2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth  
 3. Directivity is averaged over the frequency range.  
 4. The SPEAKON connectors are wired as follow : LF1: hot pin 1+, cold pin 1-, LF2: hot pin 2+, cold pin 2-, MF: hot pin 3+, cold pin 3-, HF: hot pin 4+, cold pin 4-.



# Line Source system

## CL series

The key to Sound

### CL 16 / CL 3040 / CL 40 / CL 40T

Lotusline CL series are compact but high power systems, they include MVC™ technology and the new CLS™ Lotusline proprietary technology.

CLS™ technology, Coaxial Line Source is the definitive solution for two way configuration line source symmetrical array systems. Standard two way line source arrays using only one low frequency driver are asymmetrical cabinets, CLS™ based Lotusline CL series are symmetrical and optimized minimum front baffle sized.

CLS™ technology offers all advantages of coaxial active horn arrangement applied to line source array systems. It means, minimum front baffle size, perfect symmetry of the baffle and so, perfect symmetry of the coverage.

Lotusline CL series uses CLS™ technology, increasing the efficiency in low mid region, shaping the wavefront from spherical to ovoid and increasing consequently the maximum crossover frequency in vertical coupling.

CLS™ technology is a major improvement for two way line source array design.

Lotusline CL series are ideal for fixed installation. They can be used one by one in distributed configuration as well as coupled up to four depending on the coverage angle needed. The integrated rigging system allows vertical and horizontal coupling.

A minimum quantity of cabinets is used to cover large areas in mid throw installations like;

Central cluster for theater and side systems for music and spatial effects.

Main FOH for stage in clubs, side fills and distributed PA.

### Products line



CL 16  
Compact high-power coaxial line source array element



CL 3040  
High-power coaxial line source array cabinet



CL 40 / CL 40T  
High-power coaxial line source array cabinet

### Fly rigging accessories



CL16FM01



CL16FM02



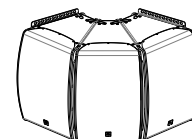
CL3040FM01



3040FM02



3040FM03



CL40FM01



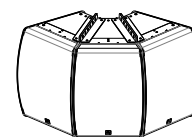
40FM02



40FM03



40FM04



## CL 16 Coaxial line source system



- Compact two way coaxial line source system
- One 10 inch coaxial driver
- One 1 inch compression driver
- CLS™ collinear arrangement
- Usable unitary or arrayed
- Vertical or horizontal arrangement
- OEM factory presets for approved digital processors

Lotusline CL16 is a compact two way coaxial line source system, include MVC™ technology and the **CLS™** Lotusline proprietary technology.

The CL16 is an active two-way loudspeaker system. The low-mid section comprises a 10 inch coaxial driver loaded by a 4th order MVC™ bass reflex enclosure. The high section includes a 1 inch throat (1.75" voice coil) high frequency compression driver mounted on **CLS™** waveguide that provides an 100° horizontal coverage and 0° to 16° vertical coverage.

The CL16 is designed for fixed installation and touring sound. Can be used one by one in distributed configuration as well as coupled up to twenty four depending on the coverage angle needed.

The integrated rigging system allows vertical and horizontal coupling.

A minimum quantity of cabinets is used to cover large areas in mid throw installations like:  
Performing arts centers, theatres, churches and touring sound reinforcement for mid-sized venues.

## Specifications

### FEATURES

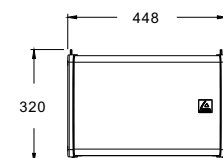
|  | Low Section  | High Section      |
|--|--|-------------------|
| Frequency range with processor (±3dB)            | 60 Hz to 1100 Hz   | 1100 Hz to 20 kHz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>           | 98 dB SPL  | 110 dB SPL        |
| Maximum continuous level at 1m <sup>2</sup>      | 123 dB SPL   | 129 dB SPL        |
| Peak level at 1m, f>65Hz                         | 129 dB SPL   | 133 dB SPL        |
| Nominal impedance                                | 8 Ohms   | 16 Ohms           |
| Nominal horizontal coverage@-6dB <sup>3</sup>    | 100°   |                   |
| Unit nominal vertical coverage@-6dB <sup>3</sup> | 0° to 16°(0.5°,1°,2°,3°,4°,6°,8°,10°,12°,14°,16°,inter-enclosure angles) |                   |

### COMPONENTS

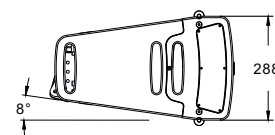
|                   | Low Section                       | High Section                                       |
|-------------------|-----------------------------------|--|
| Transducers       | 1 x 10" weatherproof loudspeakers | 1 x 1" throat compression driver coaxially mounted |
| Coil diameter     | 75 mm                             | 45 mm  |
| Type of load      | MVC™ Bass reflex                  | Arrayable horn                                     |
| Power (AES/ Peak) | 300 W / 9000 W                    | 80 W / 200W  |

### CONSTRUCTION & CHARACTERISTICS

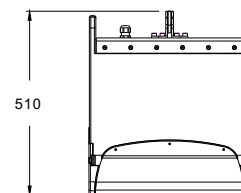
|                         |   |
|-------------------------|---|
| Cabinet                 | 18mm birch plywood with internal braces |
| Crossover               | Factory presets                         |
| Connectors <sup>4</sup> | 35cm link cable, 1 x Speakon NL4MP      |
| Handles                 | 4 wood integrated handles               |
| Rigging                 | Proprietary 3 points flying system      |
| Dimensions (H x W x D)  | 320 x 448 x 510 mm                      |
| Net unit weight         | 23.6 kg 51.9 lbs                        |
| Gross weight, packed    | 27.2 kg 59.8 lbs                        |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth.

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the frequency range.

4. The SPEAKON connectors are wired as follow : LF: hot pin 1+, cold pin 1-, HF: hot pin 2+, cold pin 2-.

## CL 3040 Coaxial line source system



- Two way coaxial line source system
- One 15 inch coaxial driver
- One 1.4 inch throat neodymium compression driver
- CLS™ collinear arrangement
- Usable unitary or arrayed
- 30° to 40° horizontal coverage and 90° vertical coverage
- Vertical or horizontal arrangement
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

The Lotusline CL3040 is a compact but high power system including MVC™ technology and the CLS™ Lotusline proprietary technology.

The CL3040 is an active two-way loudspeaker system. The low-mid section comprises a 15 inch coaxial driver loaded by a 4th order MVC™ bass reflex enclosure. The high section includes a 1.4 inch throat (3" voice coil) neodymium high frequency compression driver mounted on CLS™ waveguide that provides an 30° to 40° horizontal coverage and 90° vertical coverage.

The CL3040 is a high power two way coaxial line source system, designed for fixed installation. Can be used one by one in distributed configuration as well as coupled up to four depending on the coverage angle needed.

The integrated rigging system allows vertical and horizontal coupling.

A minimum quantity of cabinets is used to cover large areas in mid throw installations like central cluster for concert halls, theater and side fill systems for music and spatial effects, main FOH for stage in clubs, side fills and distributed PA.

## Specifications

### FEATURES

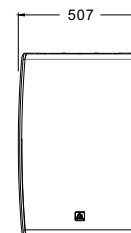
|  |  |                   |
|--|--|-------------------|
| Frequency range with processor (±3dB)            | 60 Hz to 1100 Hz                               | 1100 Hz to 20 kHz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>           | 100 dB SPL                                     | 112 dB SPL        |
| Maximum continuous level at 1m <sup>2</sup>      | 127 dB SPL                                     | 132 dB SPL        |
| Peak level at 1m, f>65Hz                         | 133 dB SPL                                     | 136 dB SPL        |
| Nominal impedance                                | 8 Ohms   | 16 Ohms           |
| Nominal horizontal coverage@-6dB <sup>3</sup>    | 90°  |                   |
| Unit nominal vertical coverage@-6dB <sup>3</sup> | 30° to 40°(30°,35°,40°,inter-enclosure angles) |                   |

### COMPONENTS

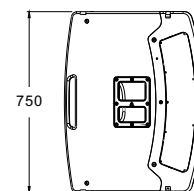
|                   | Low Section                       | High Section   |
|-------------------|-----------------------------------|--|
| Transducers       | 1 x 15" weatherproof loudspeakers | 1 x 1.4" throat compression driver coaxially mounted |
| Coil diameter     | 75 mm                             | 75 mm  |
| Type of load      | MVC™ Bass reflex                  | Arrayable horn                                       |
| Power (AES/ Peak) | 500 W / 1500 W                    | 120 W / 300W   |

### CONSTRUCTION & CHARACTERISTICS

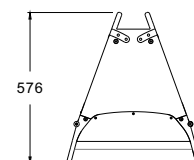
|                        |   |
|------------------------|---|
| Cabinet                | 18mm birch plywood with internal braces     |
| Crossover              | Factory presets                             |
| Connectors             | 2 x Speakon NL4MP                           |
| Handles                | 2 x Aluminium integrated handles            |
| Rigging                | Optional CL3040FM01, CL3040FM02, CL3040FM03 |
| Dimensions (H x W x D) | 750 x 507 x 576 mm                          |
| Net unit weight        | 41.5 kg 91.3 lbs                            |
| Gross weight, packed   | 45.5 kg 100.1 lbs                           |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth.

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the frequency range.

4. The SPEAKON connectors are wired as follow : LF: hot pin 1+, cold pin 1-, HF: hot pin 2+, cold pin 2-.



## CL 40 Coaxial line source system



- Two way coaxial line source system
- One 15 inch coaxial driver
- One 1.4 inch throat neodymium compression driver
- CLS™ collinear arrangement
- Usable unitary or arrayed
- 40° horizontal coverage and 90° vertical coverage
- Vertical or horizontal arrangement
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

The Lotusline CL40 is a compact but high power system including **MVC™** technology and the **CLS™** Lotusline proprietary technology.

The CL40 is an active two-way loudspeaker system. The low-mid section comprises a 15 inch coaxial driver loaded by a 4th order **MVC™** bass reflex enclosure. The high section includes a 1.4 inch throat (3" voice coil) neodymium high frequency compression driver mounted on **CLS™** waveguide that provides an 40° horizontal coverage and 90° vertical coverage.

The CL40 is a high power two way coaxial line source system, designed for fixed installation. Can be used one by one in distributed configuration as well as coupled up to four depending on the coverage angle needed.

The integrated rigging system allows vertical and horizontal coupling.

A minimum quantity of cabinets is used to cover large areas in mid throw installations like central cluster for concert halls, theater and side fill systems for music and spatial effects, main FOH for stage in clubs, side fills and distributed PA.

## Specifications

### FEATURES

|  |                  |                   |
|--|------------------|-------------------|
| Frequency range with processor (±3dB)            | 50 Hz to 1100 Hz | 1100 Hz to 20 kHz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>           | 99 dB SPL        | 107 dB SPL        |
| Maximum continuous level at 1m <sup>2</sup>      | 127 dB SPL       | 127 dB SPL        |
| Peak level at 1m, f>65Hz                         | 133 dB SPL       | 134 dB SPL        |
| Nominal impedance                                | 8 Ohms           | 16 Ohms           |
| Nominal horizontal coverage@-6dB <sup>3</sup>    |                  | 90°               |
| Unit nominal vertical coverage@-6dB <sup>3</sup> |                  | 40°               |

### Low Section

|                   |                                   |
|-------------------|-----------------------------------|
| Transducers       | 1 x 15" weatherproof loudspeakers |
| Coil diameter     | 75 mm                             |
| Type of load      | MVC™ Bass reflex                  |
| Power (AES/ Peak) | 500 W / 1500 W                    |

### High Section

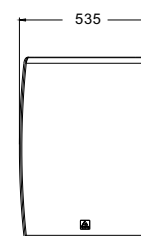
|                   |  |
|-------------------|--|
| Transducers       | 1 x 1.4" throat compression driver coaxially mounted |
| Coil diameter     | 75 mm  |
| Type of load      | Arrayable horn                                       |
| Power (AES/ Peak) | 100 W / 250W   |

### COMPONENTS

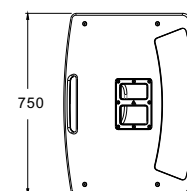
|                   |                                   |  |
|-------------------|-----------------------------------|--|
| Transducers       | 1 x 15" weatherproof loudspeakers | 1 x 1.4" throat compression driver coaxially mounted |
| Coil diameter     | 75 mm                             | 75 mm  |
| Type of load      | MVC™ Bass reflex                  | Arrayable horn                                       |
| Power (AES/ Peak) | 500 W / 1500 W                    | 100 W / 250W   |

### CONSTRUCTION & CHARACTERISTICS

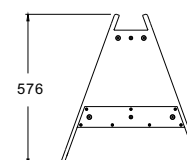
|                        |   |
|------------------------|---|
| Cabinet                | 18mm birch plywood with internal braces         |
| Crossover              | Factory presets                                 |
| Connectors             | 2 x Speakon NL4MP                               |
| Handles                | 2 x Aluminium integrated handles                |
| Rigging                | Optional CL40FM01, CL40FM02, CL40FM03, CL40FM04 |
| Dimensions (H x W x D) | 750 x 535 x 576 mm                              |
| Net unit weight        | 38.2 kg 80.1 lbs                                |
| Gross weight, packed   | 42.2 kg 92.8 lbs                                |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth.

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the frequency range.

4. The SPEAKON connectors are wired as follow : LF: hot pin 1+, cold pin 1-, HF: hot pin 2+, cold pin 2-.



# CL Series

The key to Sound

## CL 40T Coaxial line source system



- Two way coaxial line source system
- One 15 inch coaxial driver
- One 1.4 inch throat neodymium compression driver
- CLS™ collinear arrangement
- Usable unitary or arrayed
- 40° horizontal coverage and 90° vertical coverage
- Vertical or horizontal arrangement
- Integrated passive crossover optimized for security applications
- OEM factory presets for approved digital processors

The Lotusline CL40T loudspeaker cabinets provide a versatile system designed for high quality coupled or distributed sound reinforcement in high performance fixed installation.

The CL40T is a compact but high power system including MVC™ technology and the CLS™ Lotusline proprietary technology.

The CL40T is a two-way loudspeaker system with integrated crossover and 100V transformer. The low-mid section comprises a 15 inch coaxial driver loaded by a 4th order MVC™ bass reflex enclosure. The high section includes a 1.4 inch throat (3" voice coil) neodymium high frequency compression driver mounted on CLS™ waveguide that provides an 40° horizontal coverage and 90° vertical coverage.

The Lotusline CL40T crossovers are build with air core inductors, MKP capacitors and wirewound resistors.

Lotusline CL40T is a ideal for fixed installation. Can be used one by one in distributed configuration as well as coupled up to four depending on the coverage angle needed. The integrated rigging system allows vertical and horizontal coupling.

A minimum quantity of cabinets is used to cover large areas in mid throw installations like; With IP54 classification, 700V insulation, 100V transformer, two power handling. The CL40T is particularly suitable for deported security installation in large outdoor public spaces.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
 Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
 Maximum continuous level at 1m<sup>2</sup>  
 Peak level at 1m, f>65Hz  
 Nominal horizontal coverage@-6dB<sup>3</sup>  
 Unit nominal vertical coverage@-6dB<sup>3</sup>  
 Nominal input

### Low Section

60 Hz to 1100 Hz  
 99 dB SPL

### High Section

1100 Hz to 20 kHz  
 104 dB SPL

127 dB SPL  
 132 dB SPL

90°

40°

100V, 125W - 250W  
 8 Ohms 600W

### COMPONENTS

Transducers

1 x 15" weatherproof loudspeakers

1 x 1.4" throat compression driver coaxially mounted

Coil diameter

75 mm

75 mm

Type of load

MVC™ Bass reflex

Arrayable horn

Power (AES/ Peak)

600 W / 1500W

### CONSTRUCTION & CHARACTERISTICS

Cabinet

18mm birch plywood with internal braces

Crossover

Factory presets

Connectors

2 x Waterproof cable glands, 700V insulated terminal

Handles

2 x Aluminium integrated handles

Classification

Ip54

Rigging

Optional CL40FM01, CL40FM02, CL40FM03, CL40FM04

Dimensions (H x W x D)

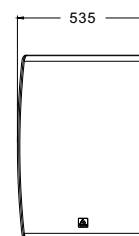
750 x 535 x 576 mm

Net unit weight

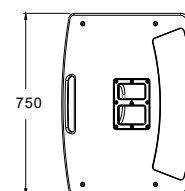
40 kg 88 lbs

Gross weight, packed

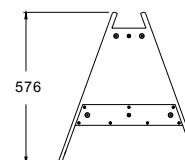
43 kg 94.6 lbs



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth.

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the frequency range.

## SS 15 Spherical Source Array element



- Two way spherical source element
- One 15 inch low frequency driver
- One 3 inch coil compression driver
- Point source arrangement
- SSA™ waveguide
- 45° horizontal coverage
- 60°(+15° -45°) vertical coverage
- Designed for high performance fixed installation
- OEM factory presets for approved digital processors

Lotusline **SS15** loudspeaker system are based on the latest electro acoustics developments and include the new **SSA™** proprietary technology.

The **SS15** is an active two-way loudspeaker cabinet. The low-mid section comprises a 15 inch high power driver loaded by a **MVC™** bass reflex enclosure. The high section includes a 1.4 inch throat (3" voice coil) neodymium high frequency compression driver mounted on **SSA™** waveguide that provides an 45° horizontal coverage and 60° (+15° up, -45° down) vertical coverage.

The loudspeaker enclosure constructed of 18 mm birch plywood with internal braces remains free of vibration at extreme sound pressure levels. The enclosure have 2 aluminum integrated handles on the sides and include 8 x M6 integrated nuts.

**SS15** cabinets are great tools offering the sound designer a wide range of new possibilities as well for shadow zone which cannot be covered by the main system, as for building FOH systems in theatres, clubs, auditoriums, churches and all places where long throw is not a mandatory parameter but, a constant tonal balance with distance is.

**SS15** cabinets eliminate the need of extra downfill cabinets and can cover places with front stalls and balcony.

**SS15** cabinets are designed for constant curvature vertical tangent array as well as horizontal constant curvature horizontal tangent array. Like other Lotusline products, **SS15** cabinets are equipped with all necessary points for an easy and secure rigging using proprietary accessories.

### Specifications

#### FEATURES

|  | Low Section           | High Section     |
|--|-----------------------|------------------|
| Frequency range with processor (±3dB)            | 50 Hz to 700 Hz       | 700 Hz to 20 kHz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>           | 98 dB SPL             | 106 dB SPL       |
| Maximum continuous level at 1m <sup>2</sup>      | 125 dB SPL            | 126 dB SPL       |
| Peak level at 1m, f>65Hz                         | 131 dB SPL            | 131 dB SPL       |
| Nominal impedance                                | 8 Ohms                | 16 Ohms          |
| Nominal horizontal coverage@-6dB <sup>3</sup>    | 45°                   |                  |
| Unit nominal vertical coverage@-6dB <sup>3</sup> | 60°(+15°up, -45°down) |                  |

#### COMPONENTS

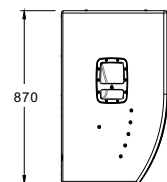
|                     | Low Section                       | High Section   |
|---------------------|-----------------------------------|--|
| Transducers         | 1 x 15" weatherproof loudspeakers | 1 x 1.4" throat compression driver coaxially mounted |
| Coil diameter       | 77 mm                             | 77 mm  |
| Type of load        | MVC™ Bass reflex                  | SSA™ horn  |
| Power ( AES/ Peak ) | 500 W / 2000 W                    | 100 W / 300W   |

#### CONSTRUCTION & CHARACTERISTICS

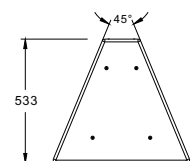
|                        |  |
|------------------------|--|
| Cabinet                | 18mm birch plywood with internal braces              |
| Crossover              | Factory presets                                      |
| Connectors             | 2 x Speakon NL4MP                                    |
| Handles                | 2 x Aluminium integrated handles                     |
| Rigging                | 8 x 6mm integrated nuts, optional SS15FM01, SS15FM02 |
| Dimensions (H x W x D) | 870 x 588 x 533 mm                                   |
| Net unit weight        | 40 kg 88 lbs   |
| Gross weight, packed   | 45 kg 99 lbs   |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth.

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the frequency range.

4. The SPEAKON connectors are wired as follow : LF: hot pin 1+, cold pin 1-, HF: hot pin 2+, cold pin 2-.



# Point Source system

## MA series

The key to Sound

### MA 15<sub>V2</sub> / MA 12<sub>V2</sub> / MA 10<sub>V2</sub> / MA 8<sub>V2</sub>

The Lotusline MA series loudspeaker enclosures provide a versatile system that is designed for high quality distributed sound reinforcement or high performance monitoring. Using true point source coaxial technology, the Lotusline MA series features advanced components in a flexible, multipurpose format that is suitable for either touring or fixed installation.

The MA series are passive two-way loudspeakers. The low/mid section comprises a bass driver loaded in a 4th order MVC™ enclosure. The hi section includes a High Frequency compression driver assembled in a coaxial configuration along with the full low section loudspeaker providing a conical opening.

Further advantages of the coaxial approach include: single point source radiation, total wavefront coherency at all frequencies and superimposed LF/HF dispersion characteristics that are free of polar lobbing effects typical of traditional horn and woofer combinations. The net result is natural, studio monitor level sound quality that is ideal for proximity use.

The MA series provides a very coherent acoustic field with 90°-120° conical coverage.

The MVC™ (Multi Vent Convection) technology, allows the Lotusline MA series to handle nominal full power capacity in any working position.

The enclosure comprises two angles side, 45° and 60° for stage monitor application and include two 35mm built in stand supports as well as four wood integrated handles and 5 cargo standard rigging points.

The Lotusline MA series crossovers are built with air core inductors, MKP capacitors and wirewound resistors.

The Lotusline MA series apply full power handling with low thermal compression.

### Product line / Fly rigging accessories



# MQ Series



The key to Sound

## MQ 60 Point source system



- Coaxial technology
- Passive two way system
- True point source
- Conical 60° waveguide
- Increasing controlled directivity
- MVC™ Bass-reflex cooling
- Full power handling with low thermal compression
- Suitable for medium-power FOH and side fill applications
- Designed for high performance fixed installation and touring or stage monitoring
- OEM factory presets for approved digital processors

The Lotusline MQ60 loudspeaker cabinets provide a versatile system designed for high quality distributed sound reinforcement in high performance fixed installation or stage monitoring. Using true point source coaxial technology and increasing directivity design, the MQ60 offers a full coverage free of lobbing effects inside and outside the coverage angles.

The coaxial technology combined with increasing controlled directivity design used in the MQ60 is the best solution to recreate true point source with natural sounding behaviour. The MQ60 is the perfect answer to obtain high intelligibility and clarity in semi reverberant acoustic environments.

The MQ60 is a two-way loudspeaker system with integrated crossover. The low-mid section comprises a 15 inch bass driver loaded by a 4th order MVC™ bass reflex enclosure. The high section includes a 1.4 inch throat (3" voice coil) neodymium high frequency compression driver assembled in a coaxial configuration together with the low section loudspeaker providing a conical opening.

The MQ60 provides a coherent acoustic field with 60° conical average coverage.

Two MQ60 can be used coupled to increase the SPL and coverage while minimizing destructives interferences.

The MQ60 is meant as a main F.O.H and distributed sound system in big rooms like convention centres, theatres, clubs and multipurpose venues or corporate events.

## Specifications

### FEATURES

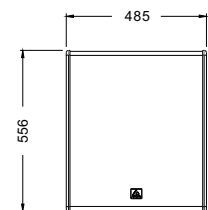
|   | Low Section      | High Section      |
|---|------------------|-------------------|
| Frequency range with processor (±3dB)         | 55 Hz to 1100 Hz | 1100 Hz to 20 kHz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>        | 98 dB SPL        | 113 dB SPL        |
| Maximum continuous level at 1m <sup>2</sup>   | 126 dB SPL       | 130 dB SPL        |
| Peak level at 1m, f>65Hz                      | 130 dB SPL       | 134 dB SPL        |
| Nominal impedance                             | 8 Ohms           | 16 Ohms           |
| Nominal horizontal coverage@-6dB <sup>3</sup> | 60° conical      |                   |

### COMPONENTS

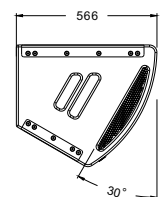
|                   | Low Section                       | High Section   |
|-------------------|-----------------------------------|--|
| Transducers       | 1 x 15" weatherproof loudspeakers | 1 x 1.4" throat compression driver coaxially mounted |
| Coil diameter     | 75 mm                             | 75 mm  |
| Type of load      | MVC™ Bass reflex                  | Conical Horn   |
| Power (AES/ Peak) | 600 W / 1500 W                    | 100 W / 250 W  |

### CONSTRUCTION & CHARACTERISTICS

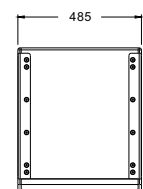
|                        |   |
|------------------------|---|
| Cabinet                | 18mm birch plywood with internal braces                                 |
| Crossover              | Passive mode: Internal passive network<br>Active model: Factory presets |
| Connectors             | 2 x Speakon NL4MP   |
| Handles                | 2 wood integrated handles   |
| Rigging                | Optional M60FM01, M60FM02, M60FM03                                      |
| Dimensions (H x W x D) | 556 x 485 x 566 mm  |
| Net unit weight        | 27.5 kg 60.5 lbs  |
| Gross weight, packed   | 30.5 kg 67.1 lbs  |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth.

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the frequency range.

4. The SPEAKON connectors are wired as follow : LF: hot pin 1+, cold pin 1-, HF: hot pin 2+, cold pin 2-.



# MA Series

The key to Sound

## MA 15v2 Point source system



- Coaxial technology
- Passive two way system
- Single point source
- Conical 90° waveguide
- Natural sound reproduction
- MVC™ Bass-reflex cooling
- Full power handling with low thermal compression
- Suitable for medium-power FOH and side fill applications
- Designed for high performance fixed installation and touring or stage monitoring
- OEM factory presets for approved digital processors

The Lotusline MA15v2 loudspeaker enclosures provide a versatile system that is designed for high quality distributed sound reinforcement or high performance monitoring. Using true point source coaxial technology, the Lotusline MA series features advanced components in a flexible, multipurpose format that is suitable for either touring or fixed installation.

The MA15v2 is a passive two-way loudspeaker. The low/mid section comprises a 15 inch bass driver loaded in a 4th order MVC™ enclosure, The hi section includes a 1.4 inch high frequency compression driver assembled in a coaxial configuration along with the full low section loudspeaker providing a conical opening.

The MA15v2 provides a very coherent acoustic field with 90° conical coverage.

As a main F.O.H the MA15v2 is meant for vocal applications, stage monitoring or distributed sound.

Combined with Lotusline subwoofers, the MA15v2 allows to create compact and powerful systems suitable for all indoor or outdoor configuration.

The MA15v2 is also ideal for distributed sound reinforcement and can be used in medium power front-of-house (FOH) applications for theatres, clubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor (±3dB)  
Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
Maximum continuous level at 1m<sup>2</sup>  
Peak level at 1m, f>65Hz  
Nominal impedance  
Nominal horizontal coverage@-6dB<sup>3</sup>

### Low Section

55Hz to 1100 Hz

### High Section

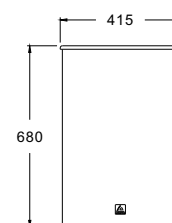
1100 Hz to 20 kHz  
100 dB SPL  
127 dB SPL  
133 dB SPL  
8 Ohms  
90° conical

### COMPONENTS

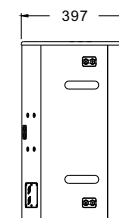
|                   |                                  |  |
|-------------------|----------------------------------|--|
| Transducers       | 1 x 15" weatherproof loudspeaker | 1 x 1.4" throat compression driver coaxially mounted |
| Coil diameter     | 75 mm                            | 45 mm  |
| Type of load      | MVC™ Bass reflex                 | Conical Horn   |
| Power (AES/ Peak) | 500 W / 2000 W                   |  |

### CONSTRUCTION & CHARACTERISTICS

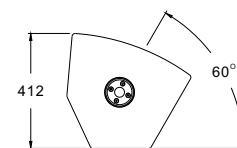
|                         |  |
|-------------------------|--|
| Cabinet                 | 18mm birch plywood with internal braces                    |
| Crossover               | Internal passive network                                   |
| Connectors <sup>4</sup> | 4 x Speakon NL4MP  |
| Handles                 | 4 wood integrated handles                                  |
| Rigging                 | 4 inserts for Omnimount 60 series, 5 standard cargo points |
| Dimensions (H x W x D)  | 680 x 452 x 397 mm   |
| Net unit weight         | 31.5 kg 69.4 lbs   |
| Gross weight, packed    | 34.6 kg 76.3 lbs   |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the 600Hz-12 kHz range.

4. The SPEAKON connectors are wired, hot : pin 2+, cold : pin 2-.



# MA Series

The key to Sound

## MA 12v2 Point source system



- Coaxial technology
- Passive two way system
- Single point source
- Conical 90° waveguide
- Natural sound reproduction
- MVC™ Bass-reflex cooling
- Full power handling with low thermal compression
- Suitable for medium-power FOH and side fill applications
- Designed for high performance fixed installation and touring or stage monitoring
- OEM factory presets for approved digital processors

The Lotusline MA12v2 loudspeaker enclosures provide a versatile system that is designed for high quality distributed sound reinforcement or high performance monitoring. Using true point source coaxial technology, the Lotusline MA series features advanced components in a flexible, multipurpose format that is suitable for either touring or fixed installation.

The MA12v2 is a passive two-way loudspeaker. The low/mid section comprises a 12 inch bass driver loaded in a 4th order MVC™ enclosure, The hi section includes a 1 inch high frequency compression driver assembled in a coaxial configuration along with the full low section loudspeaker providing a conical opening.

The MA12v2 provides a very coherent acoustic field with 90° conical coverage.

As a main F.O.H the MA12v2 is meant for vocal applications, stage monitoring or distributed sound.

Combined with Lotusline subwoofers, the MA12v2 allows to create compact and powerful systems suitable for all indoor or outdoor configuration.

The MA12v2 is also ideal for distributed sound reinforcement and can be used in medium power front-of-house (FOH) applications for theatres, clubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor (±3dB)  
Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
Maximum continuous level at 1m<sup>2</sup>  
Peak level at 1m, f>65Hz  
Nominal impedance  
Nominal horizontal coverage@-6dB<sup>3</sup>

### Low Section

60Hz to 1100 Hz

### High Section

1100 Hz to 20 kHz

98 dB SPL

125 dB SPL

131 dB SPL

8 Ohms

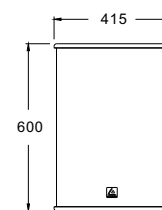
90° conical

### COMPONENTS

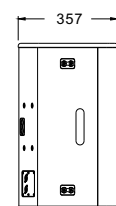
|                     |                                  |  |
|---------------------|----------------------------------|--|
| Transducers         | 1 x 12" weatherproof loudspeaker | 1 x 1" throat compression driver coaxially mounted |
| Coil diameter       | 77 mm                            | 45 mm  |
| Type of load        | MVC™ Bass reflex                 | Conical Horn                                       |
| Power ( AES/ Peak ) | 400 W / 1500 W                   |  |

### CONSTRUCTION & CHARACTERISTICS

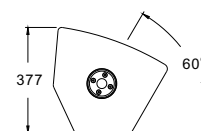
|                         |  |
|-------------------------|--|
| Cabinet                 | 18mm birch plywood with internal braces                    |
| Crossover               | Internal passive network                                   |
| Connectors <sup>4</sup> | 4 x Speakon NL4MP  |
| Handles                 | 2 wood integrated handles                                  |
| Rigging                 | 4 inserts for Omnimount 60 series, 5 standard cargo points |
| Dimensions (H x W x D)  | 600 x 415 x 357 mm   |
| Net unit weight         | 22 kg 48.4 lbs   |
| Gross weight, packed    | 25 kg 55 lbs   |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the 600Hz-12 kHz range.

4. The SPEAKON connectors are wired, hot : pin 2+, cold : pin 2-.



# MA Series

The key to Sound

## MA 10v2 Point source system



- Coaxial technology
- Passive two way system
- Single point source
- Conical 110° waveguide
- Natural sound reproduction
- MVC™ Bass-reflex cooling
- Full power handling with low thermal compression
- Suitable for medium-power FOH and side fill applications
- Designed for high performance fixed installation and touring or stage monitoring
- OEM factory presets for approved digital processors

The Lotusline MA10v2 loudspeaker enclosures provide a versatile system that is designed for high quality distributed sound reinforcement or high performance monitoring. Using true point source coaxial technology, the Lotusline MA series features advanced components in a flexible, multipurpose format that is suitable for either touring or fixed installation.

The MA10v2 is a passive two-way loudspeaker. The low/mid section comprises a 10 inch bass driver loaded in a 4th order MVC™ enclosure, The hi section includes a 1 inch high frequency compression driver assembled in a coaxial configuration along with the full low section loudspeaker providing a conical opening.

The MA10v2 provides a very coherent acoustic field with 110° conical coverage.

Combined with Lotusline subwoofers, the MA10v2 allows to create compact and powerful systems suitable for all indoor or outdoor configuration.

The MA10v2 is also ideal for distributed sound reinforcement and can be used in medium power front-of-house (FOH) applications for theatres, clubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
Maximum continuous level at 1m<sup>2</sup>  
Peak level at 1m, f>65Hz  
Nominal impedance  
Nominal horizontal coverage@-6dB<sup>3</sup>

### Low Section

60Hz to 1300 Hz  
  
  
  
  
110° conical

### High Section

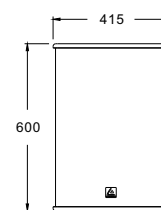
1300 Hz to 20 kHz  
  
98 dB SPL  
123 dB SPL  
129 dB SPL  
8 Ohms

### COMPONENTS

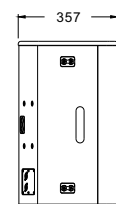
|                   |                                  |  |
|-------------------|----------------------------------|--|
| Transducers       | 1 x 10" weatherproof loudspeaker | 1 x 1" throat compression driver coaxially mounted |
| Coil diameter     | 45 mm                            | 45 mm  |
| Type of load      | MVC™ Bass reflex                 | Conical Horn                                       |
| Power (AES/ Peak) | 300 W / 1200 W                   |  |

### CONSTRUCTION & CHARACTERISTICS

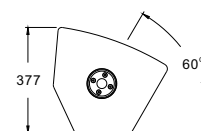
|                         |  |
|-------------------------|--|
| Cabinet                 | 18mm birch plywood with internal braces                    |
| Crossover               | Internal passive network                                   |
| Connectors <sup>4</sup> | 4 x Speakon NL4MP  |
| Handles                 | 2 wood integrated handles                                  |
| Rigging                 | 4 inserts for Omnimount 60 series, 5 standard cargo points |
| Dimensions (H x W x D)  | 526 x 346 x 297 mm   |
| Net unit weight         | 18.4 kg 40.6 lbs   |
| Gross weight, packed    | 20.5 kg 45.2 lbs   |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. Directivity is averaged over the 600Hz-12 kHz range.

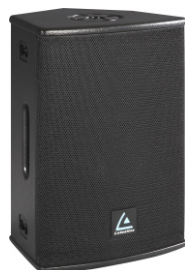
4. The SPEAKON connectors are wired, hot : pin 2+, cold : pin 2-.



# MA Series

The key to Sound

## MA 8v2 Point source system



- Coaxial technology
- Passive two way system
- Single point source
- Conical 120° waveguide
- Natural sound reproduction
- MVC™ Bass-reflex cooling
- Full power handling with low thermal compression
- Designed for high performance fixed installation and touring or stage monitoring
- OEM factory presets for approved digital processors

The Lotusline MA8v2 loudspeaker enclosures provide a versatile system that is designed for high quality distributed sound reinforcement or high performance monitoring. Using true point source coaxial technology, the Lotusline MA series features advanced components in a flexible, multipurpose format that is suitable for either touring or fixed installation.

The MA8v2 is passive two-way loudspeaker. The low/mid section comprises a 8 inch bass drive loaded in a 4th order MVC™ enclosure, The hi section includes an annular tweeter assembled in a coaxial configuration along with a the low/mid loudspeaker providing a conical opening. The MA8v2 uses provides a very coherent acoustic field with 120° conical coverage.

The MA8v2 is also ideal for distributed sound reinforcement and can be used in A/V, broadcast, theatres, clubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor (±3dB)  
 Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
 Maximum continuous level at 1m<sup>2</sup>  
 Peak level at 1m, f>65Hz  
 Nominal impedance  
 Nominal horizontal coverage@-6dB<sup>3</sup>

### Low Section

60Hz to 1800 Hz  
  
  
  
  
 120° conical

### High Section

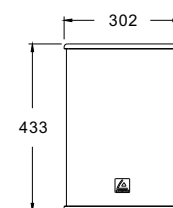
1800 Hz to 20 kHz  
  
  
  
  
 120° conical

### COMPONENTS

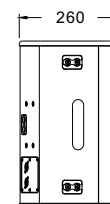
|                   |                                 |                                    |
|-------------------|---------------------------------|------------------------------------|
| Transducers       | 1 x 8" weatherproof loudspeaker | 1 x dome tweeter coaxially mounted |
| Coil diameter     | 45 mm                           | 25 mm                              |
| Type of load      | MVC™ Bass reflex                | Conical Horn                       |
| Power (AES/ Peak) | 160 W / 320 W                   |                                    |

### CONSTRUCTION & CHARACTERISTICS

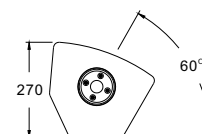
|                         |  |
|-------------------------|--|
| Cabinet                 | 18mm birch plywood with internal braces                    |
| Crossover               | Internal passive network                                   |
| Connectors <sup>4</sup> | 4 x Speakon NL4MP  |
| Handles                 | 2 wood integrated handles                                  |
| Rigging                 | 4 inserts for Omnimount 60 series, 5 standard cargo points |
| Dimensions (H x W x D)  | 433 x 302 x 260 mm   |
| Net unit weight         | 11.6 kg 25.6 lbs   |
| Gross weight, packed    | 13.4 kg 29.5 lbs   |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth  
 2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth  
 3. Directivity is averaged over the 600Hz-12 kHz range.  
 4. The SPEAKON connectors are wired, hot : pin 2+, cold : pin 2-.



# Subwoofer Source system

## SB series

The key to Sound

### SB 115 / SB 215S / SB 218S / SB 218PS

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

**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.

The loudspeaker enclosure constructed of 18 mm birch plywood with internal braces remains free of vibration at extreme sound pressure levels.

The enclosure have wood integrated handles on two sides and can be fitted with 4 optional castor plates on the back.

### Products line



SB 115



SB 215S



SB 218S



SB 218PS

## SB 115 Subwoofer system



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

Lotusline SB115 is a subwoofer offering low frequencies reinforcement for medium to high power systems. It uses one 15 inch transducer 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.

The SB115 subwoofer with Single Interactive Chambers have been developed to offer the best versus frequency-extension to size ratio.

The SB115 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 SB115 is also ideal for Stadiums, arenas, and concert halls, Medium to large theatres, Cinema and nightclubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
 Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
 Maximum continuous level at 1m<sup>2</sup>  
 Peak level at 1m, f>65Hz  
 Nominal impedance

### Low Section

40 Hz to 250 Hz  
 101 dB SPL  
 128 dB SPL  
 131 dB SPL  
 8 Ohms

### COMPONENTS

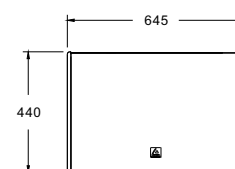
Transducers  
 Coil diameter  
 Type of load  
 Power (AES/ Peak )

1 x 15" weatherproof loudspeakers  
 75 mm  
 SIC™ Bass reflex  
 500 W / 1000 W

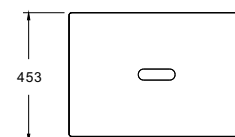
### CONSTRUCTION & CHARACTERISTICS

Cabinet  
 Crossover  
 Connectors<sup>3</sup>  
 Handles  
 Mounting on stand and bracket  
 Dimensions (H x W x D)  
 Net unit weight  
 Gross weight, packed

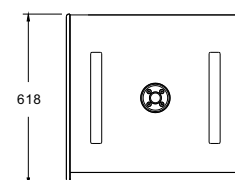
18mm birch plywood with internal braces  
 The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics.  
 2 x Speakon NL4MP  
 2 x wood integrated handles  
 1 x 35mm built in stand fitting  
 440 x 645 x 618 mm  
 35 kg 77.2 lbs  
 38 kg 83.8 lbs



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.

## SB 215S Subwoofer system



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

Lotusline SB215S is a subwoofer offering low frequencies reinforcement for high power systems. It uses two 15 inch transducers 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.

The SB215S subwoofer with Single Interactive Chambers have been developed to offer the best versus frequency-extension to size ratio.

The SB215S 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 SB215S is also ideal for Stadiums, arenas, and concert halls, Medium to large theatres, Cinema and nightclubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
 Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
 Maximum continuous level at 1m<sup>2</sup>  
 Peak level at 1m, f>65Hz  
 Nominal impedance

### Low Section

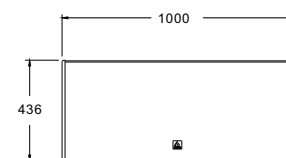
35 Hz to 250 Hz  
 103 dB SPL  
 137 dB SPL  
 141 dB SPL  
 4 Ohms

### COMPONENTS

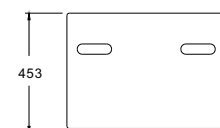
Transducers 2 x 15" weatherproof loudspeakers  
 Coil diameter 101.6 mm  
 Type of load SIC™ Bass reflex  
 Power (AES/ Peak) 2400 W / 6000 W

### CONSTRUCTION & CHARACTERISTICS

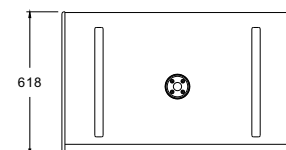
Cabinet 18mm birch plywood with internal braces  
 Crossover The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics.  
 Connectors<sup>3</sup> 2 x Speakon NL4MP  
 Handles 4 x wood integrated handles  
 Mounting on stand and bracket 1 x 35mm built in stand fitting  
 Dimensions (H x W x D) 436 x 1000 x 618 mm  
 Net unit weight 64.6 kg 142.4 lbs  
 Gross weight, packed 69.1 kg 152.3 lbs



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.



## SB 218S Subwoofer system



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

Lotusline SB218S is a subwoofer offering low frequencies reinforcement for high power systems. It uses two 18 inch transducers 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.

The SB218S subwoofer with Single Interactive Chambers 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.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
 Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
 Maximum continuous level at 1m<sup>2</sup>  
 Peak level at 1m, f>65Hz  
 Nominal impedance

### Low Section

28 Hz to 250 Hz  
 103 dB SPL  
 137 dB SPL  
 141 dB SPL  
 4 Ohms

### COMPONENTS

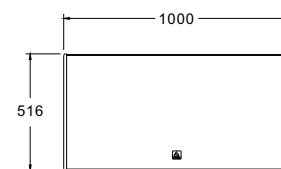
Transducers  
 Coil diameter  
 Type of load  
 Power (AES/ Peak )

2 x 18" weatherproof loudspeakers  
 101.6 mm  
 SIC™ Bass reflex  
 2400 W / 6000 W

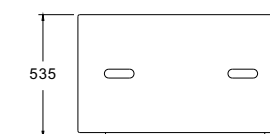
### CONSTRUCTION & CHARACTERISTICS

Cabinet  
 Crossover  
 Connectors<sup>3</sup>  
 Handles  
 Mounting on stand and bracket  
 Dimensions (H x W x D)  
 Net unit weight  
 Gross weight, packed

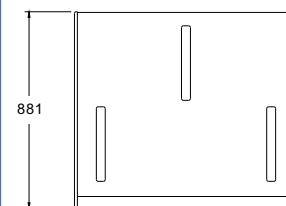
18mm birch plywood with internal braces  
 The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics.  
 2 x Speakon NL4MP  
 6 x wood integrated handles  
 ----  
 516 x 1000 x 881 mm  
 84.2 kg 185.6 lbs  
 90.2 kg 198.9 lbs



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.

# SB Series



The key to Sound

## SB 218PS Subwoofer system



- Very high power subwoofer system
- High efficiency
- Direct radiating, optimized bass reflex design
- Full power handling with low thermal compression
- Suitable for medium-power FOH and another applications
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

Lotusline SB218PS is the companion subwoofer for LA, CL, MQ and MA system features, direct radiating 18-inch transducers loaded in an optimally-sized and tuned vented enclosure. With power handling capacity of 2400 W(AES) long term (6000W/peak) and response to 35 Hz.

The SB218PS is ideal for applications requiring maximum low frequency extension and impact. The SB218PS provides unparalleled low end punch and bass articulation combined with high power handling and efficiency.

Due to its compact design and critically damped tuning, multiple SB218PS enclosures couple effectively while providing the bass definition and musicality that only a direct radiating subwoofer can provide.

The SB218PS 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 SB218PS is also ideal for distributed sound reinforcement and can be used in theatres, clubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
 Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
 Maximum continuous level at 1m<sup>2</sup>  
 Peak level at 1m, f>65Hz  
 Nominal impedance

### Low Section

35 Hz to 200 Hz  
 105 dB SPL  
 139 dB SPL  
 143 dB SPL  
 4 Ohms

### COMPONENTS

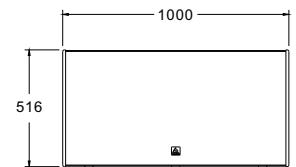
Transducers  
 Coil diameter  
 Type of load  
 Power (AES/ Peak)

2 x 18" weatherproof loudspeakers  
 101.6 mm  
 Direct radiating, bass reflex  
 2400 W / 6000 W

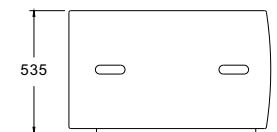
### CONSTRUCTION & CHARACTERISTICS

Cabinet  
 Crossover  
 Connectors<sup>3</sup>  
 Handles  
 Mounting on stand and bracket  
 Dimensions (H x W x D)  
 Net unit weight  
 Gross weight, packed

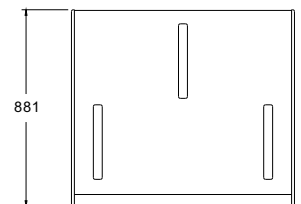
18mm birch plywood with internal braces  
 The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics.  
 2 x Speakon NL4MP  
 6 x wood integrated handles  
 ----  
 516 x 1000 x 881 mm  
 94.5 kg 208.3 lbs  
 99.7 kg 219.8 lbs



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.

# Subwoofer Source system

## SW series

The key to Sound

### SW 15 / SW 25 / SW 18 / SW 28

The Lotusline SW series are subwoofer designed with the latest state of the art simulations tools in terms of acoustic quality, mechanical strength and optimized cooling.

The loudspeaker enclosure constructed of 18 mm birch plywood with internal braces remains free of vibration at extreme sound pressure levels.

Due to its compact design and critically damped tuning, multiple SW series enclosures couple effectively while providing the bass definition and musicality that only a direct radiating subwoofer can provide.

The SW series are also ideal for distributed sound reinforcement and can be used in theatres, clubs, multi-purpose venues or corporate events.

### Products lines



SW 15



SW 25



SW 18



SW 28

## SW 15 Subwoofer system



- Compact high power subwoofer
- Arrayable for cardioid design
- CL16 companion subwoofer
- Direct radiating, optimized bass reflex design
- Full power handling with low thermal compression
- Suitable for medium-power FOH
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

The Lotusline SW15 is a subwoofer designed with the latest state of the art simulations tools in terms of acoustic quality, mechanical strength and optimized cooling. The SW15 incorporates one high excursion and low distortion 15-inch driver installed in direct radiation enclosure and loaded by a critically damped bass reflex incorporating multiple vents (MVC technology) for a better cooling.

The 15-inch transducers have a 3 inch (76 mm) copper sandwich voice coil on black Kapton former for low power compression and double treated cone for water protection. Triple demodulating rings combined with 8mm excursion capability, die cast aluminium basket, massive vented magnet structure offer the best performances even in very low frequencies.

Its power handling capacity of 500 W (AES) long term and 2000 W (Peak) all other the usable frequency bandwidth from 43 to 500 Hz ( $\pm 3$  dB) offers a permanent 123 dB SPL and 129 dB SPL peak.

The enclosure constructed of 18 mm birch plywood with internal braces remains free of vibration at extreme sound pressure levels. The enclosure have 2 aluminum integrated handles on the sides and can be fitted with 4 optional rigging parts on the sides.

The SW15 is also ideal for distributed sound reinforcement and can be used in theaters, clubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
Maximum continuous level at 1m<sup>2</sup>  
Peak level at 1m, f>65Hz  
Nominal impedance  
Nominal directivity @ -6dB

### Low Section

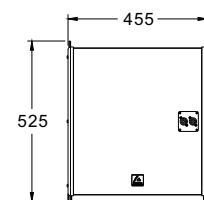
43 Hz to 500 Hz  
96 dB SPL  
123 dB SPL  
129 dB SPL  
8 Ohms  
Configuration dependant

### COMPONENTS

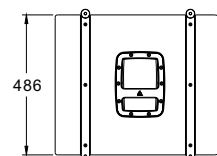
Transducers 1 x 15" weatherproof loudspeakers  
Coil diameter 76 mm  
Type of load Direct radiating, bass reflex  
Power (AES/ Peak) 500 W / 2000 W

### CONSTRUCTION & CHARACTERISTICS

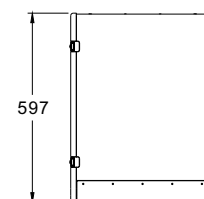
Cabinet 18mm birch plywood with internal braces  
Crossover The Crossover points shall be 80~300 Hz with 24 dB per octave Linkwitz-Riley characteristics.  
Connectors<sup>3</sup> 4 x Speakon NL4MP  
Handles 2 x Aluminium integrated handles  
Rigging Optional SW15RP01  
Dimensions (H x W x D) 486 x 455 x 597 mm  
Net unit weight 29 kg 64 lbs  
Gross weight, packed 32 kg 72.4 lbs



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.

## SW 25 Subwoofer system



- Very high power subwoofer system
- High efficiency
- Direct radiating, optimized bass reflex design
- 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

The Lotusline SW25 is a subwoofer designed with the latest state of the art simulations tools in terms of acoustic quality, mechanical strength and optimized cooling. The SW25 incorporates two high excursion and low distortion 15-inch driver installed in direct radiation enclosure and loaded by a critically damped bass reflex incorporating multiple vents (MVC™ technology) for a better cooling.

The 15-inch transducers have a 4.0 inch (100 mm) copper sandwich voice coil on black Kapton former for low power compression and double treated cone for water protection. Triple demodulating rings combined with 8 mm excursion capability, die cast aluminium basket, massive vented magnet structure offer the best performances even in very low frequencies.

Its exceptional power handling capacity of 2000W(AES) long term and 5000W(Peak) all other the usable frequency bandwidth from 35 to 200 Hz ( $\pm 3$  dB) offers a permanent 138 dB SPL and 142 dB SPL peak.

The enclosure constructed of 18 mm birch plywood with internal braces remains free of vibration at extreme sound pressure levels.

The enclosure have 4 aluminium integrated handles on the sides and include two 35mm built in stand supports on the top.

The SW25 is also ideal for distributed sound reinforcement and can be used in theatres, clubs, multi-purpose venues or corporate events.

### Specifications

#### FEATURES

|  |                 |
|--|-----------------|
| Frequency range with processor ( $\pm 3$ dB) | 35 Hz to 200 Hz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>       | 105 dB SPL      |
| Maximum continuous level at 1m <sup>2</sup>  | 138 dB SPL      |
| Peak level at 1m, f>65Hz                     | 142 dB SPL      |
| Nominal impedance                            | 4 Ohms          |

#### Low Section

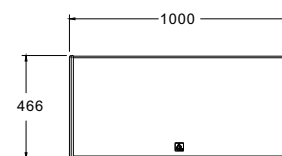
|  |                 |
|--|-----------------|
| Frequency range with processor ( $\pm 3$ dB) | 35 Hz to 200 Hz |
| Sensitivity@1W/1m, f>80Hz <sup>1</sup>       | 105 dB SPL      |
| Maximum continuous level at 1m <sup>2</sup>  | 138 dB SPL      |
| Peak level at 1m, f>65Hz                     | 142 dB SPL      |
| Nominal impedance                            | 4 Ohms          |

#### COMPONENTS

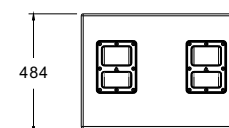
|                   |                                   |
|-------------------|-----------------------------------|
| Transducers       | 2 x 15" weatherproof loudspeakers |
| Coil diameter     | 101.6 mm                          |
| Type of load      | Direct radiating, bass reflex     |
| Power (AES/ Peak) | 2000 W / 5000 W                   |

#### CONSTRUCTION & CHARACTERISTICS

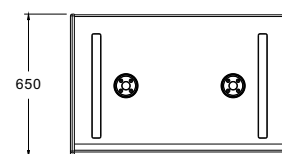
|                               |   |
|-------------------------------|---|
| Cabinet                       | 18mm birch plywood with internal braces   |
| Crossover                     | The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics. |
| Connectors <sup>3</sup>       | 2 x Speakon NL4MP   |
| Handles                       | 4 x Aluminium integrated handles  |
| Mounting on stand and bracket | 2 x 35mm built in stand fitting   |
| Dimensions (H x W x D)        | 466 x 1000 x 650 mm   |
| Net unit weight               | 50 kg 110 lbs   |
| Gross weight, packed          | 53.5 kg 117.7 lbs   |



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.

## SW 18 Subwoofer system



- High power subwoofer system
- High efficiency
- Direct radiating, optimized bass reflex design
- 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

The Lotusline SW18 is a subwoofer designed with the latest state of the art simulations tools in terms of acoustic quality, mechanical strength and optimized cooling. The SW18 incorporates one high excursion and low distortion 18-inch driver installed in direct radiation enclosure and loaded by a critically damped bass reflex incorporating multiple vents (MVC™ technology) for a better cooling.

The 18-inch transducer have a 4.0 inch (100mm) copper voice coil which has 1200W continuous program power capacity, together with FEA optimized and double silicone spider with optimized. The 18-inch transducer is neodymium magnet assembly, it has a smart ventilated voice coil gap for reduced power compression.

Its exceptional power handling capacity of 1200W(RMS) long term and 2400W(Peak) all other the usable frequency bandwidth from 31 to 200 Hz ( $\pm 3$  dB) offers a permanent 131 dB SPL and 135 dB SPL peak. al braces remains free of vibration at extreme sound pressure levels.

The enclosure have 4 aluminium integrated handles on the sides and include one 35mm built in stand supports on the top.

The SW18 is also ideal for distributed sound reinforcement and can be used in theatres, clubs, multi-purpose venues or corporate events.

## Specifications

### FEATURES

Frequency range with processor ( $\pm 3$ dB)  
Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
Maximum continuous level at 1m<sup>2</sup>  
Peak level at 1m, f>65Hz  
Nominal impedance

### Low Section

31 Hz to 200 Hz  
101 dB SPL  
131 dB SPL  
135 dB SPL  
8 Ohms

### COMPONENTS

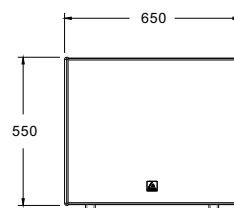
Transducers  
Coil diameter  
Type of load  
Power (AES/ Peak )

1 x 18" weatherproof loudspeakers  
100 mm  
Direct radiating, bass reflex  
1200 W / 2400 W

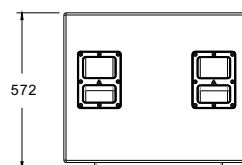
### CONSTRUCTION & CHARACTERISTICS

Cabinet  
Crossover  
Connectors<sup>3</sup>  
Handles  
Mounting on stand and bracket  
Dimensions (H x W x D)  
Net unit weight  
Gross weight, packed

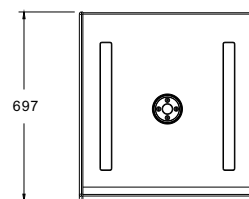
18mm birch plywood with internal braces  
The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics.  
2 x Speakon NL4MP  
4 x Aluminium integrated handles  
1 x 35mm built in stand fitting  
550 x 650 x 697 mm  
48.2 kg 106.3 lbs  
51.2 kg 112.9 lbs



Front



Side



Top

1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.



# SW Series



The key to Sound

## SW 28 Subwoofer system



- Very high power subwoofer system
- High efficiency
- Direct radiating, optimized bass reflex design
- 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

The Lotusline SW28 is a subwoofer designed with the latest state of the art simulations tools in terms of acoustic quality, mechanical strength and optimized cooling. The SW28 incorporates two high excursion and low distortion 18-inch driver installed in direct radiation enclosure and loaded by a critically damped bass reflex incorporating multiple vents (MVC™ technology) for a better cooling.

Each 18-inch transducer have a 4.0 inch (100mm) copper voice coil which has 1200W continuous program power capacity, together with FEA optimized and double silicone spider with optimized. The 18-inch transducer is neodymium magnet assembly, it has a smart ventilated voice coil gap for reduced power compression.

Its exceptional power handling capacity of 2400W(RMS) long term and 5000W(Peak) all other the usable frequency bandwidth from 31 to 200 Hz (± 3 dB) offers a permanent 141 dB SPL and 145 dB SPL peak.

The enclosure constructed of 18 mm birch plywood with internal braces remains free of vibration at extreme sound pressure levels.

The enclosure have 6 aluminium integrated handles on the sides and can be fitted with 4 optional castor plates on the back.

The SW28 is also ideal for distributed sound reinforcement and can be used in theatres, clubs, multi-purpose venues or corporate events.

### Specifications

#### FEATURES

Frequency range with processor (±3dB)  
Sensitivity@1W/1m, f>80Hz<sup>1</sup>  
Maximum continuous level at 1m<sup>2</sup>  
Peak level at 1m, f>65Hz  
Nominal impedance

#### Low Section

31 Hz to 200 Hz  
106 dB SPL  
141 dB SPL  
145 dB SPL  
4 Ohms

#### COMPONENTS

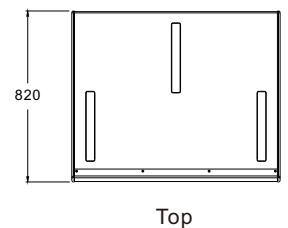
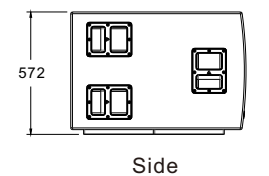
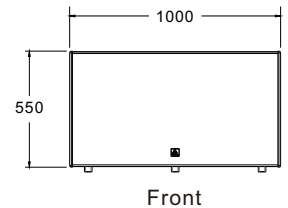
Transducers  
Coil diameter  
Type of load  
Power (AES/ Peak )

2 x 18" weatherproof loudspeakers  
100mm  
Direct radiating, bass reflex  
2400 W / 5000 W

#### CONSTRUCTION & CHARACTERISTICS

Cabinet  
Crossover  
Connectors<sup>3</sup>  
Handles  
Mounting on stand and bracket  
Dimensions (H x W x D)  
Net unit weight  
Gross weight, packed

18mm birch plywood with internal braces  
The Crossover points shall be 80~120 Hz with 24 dB per octave Linkwitz-Riley characteristics.  
2 x Speakon NL4MP  
6 x Aluminium integrated handles  
----  
550 x 1000 x 820 mm  
94.5 kg 208.3 lbs  
99.7 kg 219.8 lbs



1. Sensitivity is the average SPL measured over the components rated bandwidth

2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth

3. The SPEAKON connectors are wired, hot : pin 1+, cold : pin 1-.

# LAM Series



The key to Sound

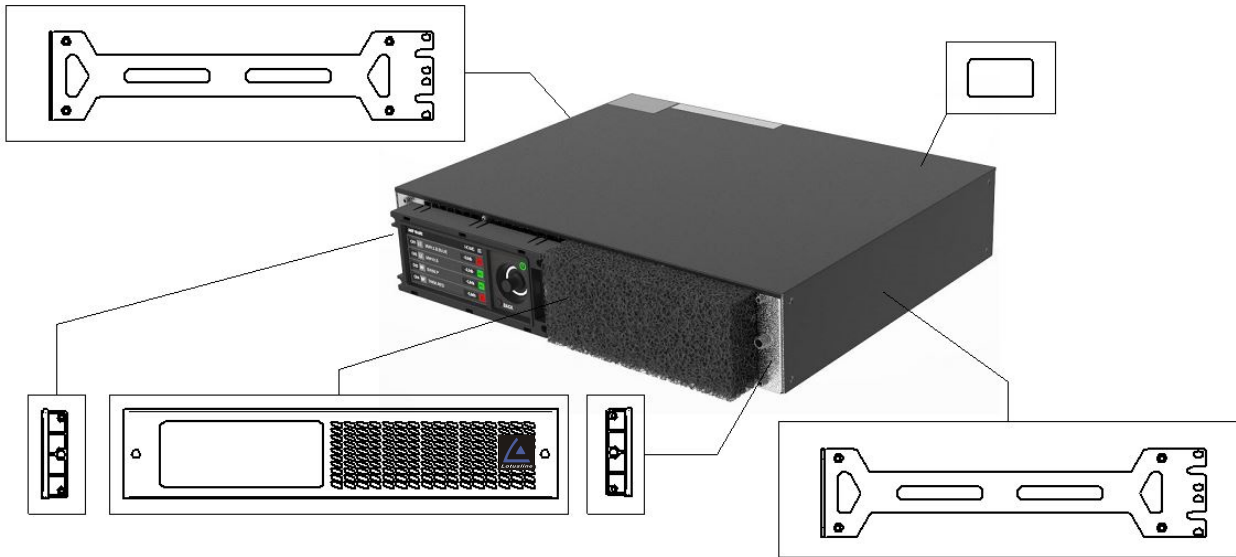
## LAM 8 / 12 Power Amplifier



- Integrated DSP management system on board
- Under Armonia Plus system manager network controlled
- 2048 taps FIR filters
- With two 4-channel models available namely 8 and 12
- Can deliver up to 3000W per channel
- Designed for high performance fixed installation and touring

LAM is an optimized amplifier platform developed for wishing to offer a complete speaker package to all systems of Lotusline loudspeaker, all Lotusline loudspeakers systems are recommended to apply under the preset data of DSP on board. LAM is Acronym for Lotusline All Markets, this CB scheme-certified, EMC Tested amplifier platform allows efficient global market access and simple applications for all Lotusline users.

Proprietary speaker presets can be created and shared through the widely adopted ArmoniaPlus software. Based on Lotusline amplification technology, LAM includes comprehensive signal processing, 2048 taps FIR filters, Damping Factor Control, Dynamic EQ, analog, AES3, Dante/AES67 inputs and outputs, and a bright 4.3" IPS display with capacitive touch. The patented PFC-equipped power supply can operate anywhere in the world, and sports 750J of energy storage to provide a consistent performance. With two 4-channel models available, namely the 8 and the 12, the LAM offers ample power and voltage and can deliver up to 3000 W per channel. The amplifier can be controlled remotely with ArmoniaPlus or by third-party software, and locally through the display interface. The available functions include preset recall, gain, delay, and muting, satisfying all most common end user's requirements.



Component Diagram



Rear Panel

## LAM 8 / 12 Power Amplifier



- Integrated DSP management system on board
- Under Armonia Plus system Manager net work Controlled
- 2048 taps FIR filters
- With two 4-channel models available namely 8 and 12
- Can deliver up to 3000W per channel
- Designed for high performance fixed installation and touring

## Specifications

| Channel Handling                     |  |
|--------------------------------------|--|
| Outputs                              | 4 x Speakon NL4<br>4 Dante/AES67 TX (from local input or DSP)  |
| Inputs                               | 4 XLR female<br>4 XLR male (LINK)  |
| Analog                               | 4 XLR female<br>4 XLR male (LINK)  |
| Digital AES3                         | 2 XLR female (4 x audio channels)<br>2 XLR male (LINK)   |
| Digital Dante/AES67                  | 2 XLR Ethercon (4 x audio channels)  |
| Audio                                |  |
|                                      | Gain LAM8 LAM12  |
| Input sensitivity @ 8 Ω              | 32 dB 2.77 2.77 Vrms   |
|                                      | S/N (20 Hz - 20 kHz @ 8 Ω) 109 Typ. 110 Typ. dB(A)   |
| Max input level                      | 24 dBu   |
| Frequency Response @ 8 Ohm load      | 20 Hz - 20 kHz +/- 1.0 dB  |
| Crosstalk (1 kHz)                    | -75 dB typ.  |
| Input impedance                      | 20 kΩ Balanced   |
| CMRR                                 | 65 dB typ.   |
| THD+N (from 0.1 W to Half Power)     | < 0.1% (typical < 0.05%)   |
| SMPTE IMD (from 0.1 W to Half Power) | < 0.1% (typical < 0.05%)   |
| Output impedance at 100 Hz           | 30 mΩ  |
| DSP                                  |  |
| AD converters                        | 24 Bit Tandem™ @ 48 kHz<br>125 dB-A Dynamic Range - 0.005 % THD+N  |
| DA converters                        | 24 Bit Tandem™ @ 48 kHz<br>117 dB-A Dynamic Range - 0.003 % THD+N  |
| Sample rate converter                | 24 Bit @ 96 kHz<br>140 dB Dynamic Range - 0.0001 % THD+N   |
| Internal precision                   | 32 bit floating point  |
| Latency                              | 2.5 ms fixed latency architecture  |
| Memory/Presets                       | 50 amplifier snapshots, virtually unlimited speaker presets  |
| Delay                                | 2 s (input) + 100 ms (output) for time alignment   |
| Equalizer                            | Raised-cosine, custom FIR, parametric IIR:<br>peaking, hi/lo-shelving, all-pass,<br>band-pass, band-stop, hi/lo-pass |
| Crossover                            | linear phase (FIR), Butterworth,<br>Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)                              |
| Limiters                             | TruePower™, RMS voltage, RMS current, Peak limiter   |
| Damping control                      | Active DampingControl™ and<br>LiveImpedance™ measurement   |
| Display Specs                        |  |
| Resolution                           | 480x272, 4.3" diagonal   |
| Brightness                           | 600 nit  |
| Control                              | Multitouch capacitive. Rotary encoder 20 steps/turn with<br>pushbutton   |

| Output Stage                       | LAM 8                 | LAM12                 |
|------------------------------------|-----------------------|-----------------------|
| per channel @ 8 Ω (symmetrical)*   | 1400 W                | 1800 W                |
| per channel @ 4 Ω (symmetrical)*   | 2000 W                | 2700 W                |
| per channel @ 2 Ω (symmetrical)*   | 2000 W                | 2000 W                |
| per channel @ 8 Ω (asymmetrical)** | 1500 W                | 1900 W                |
| per channel @ 4 Ω (asymmetrical)** | 2300 W                | 3000 W                |
| per channel @ 2 Ω (asymmetrical)** | 2000 W                | 2000 W                |
| @ 8 Ω bridged                      | 4000 W                | 5400 W                |
| @ 4 Ω bridged                      | 4000 W                | 4000 W                |
| Maximum unclipped output voltage   | 155 V <sub>peak</sub> | 180 V <sub>peak</sub> |
| Maximum output current             | >55 A <sub>peak</sub> | >55 A <sub>peak</sub> |

\* All channels driven and loaded symmetrically  
\*\* All channels driven, but channels 2 and 4 at -6dB

| Power & Thermal        |                | LAM8  | LAM12 |       |                  |
|------------------------|----------------|---|-------|-------|------------------|
| @ 100 V                | Standby        | Power   | 16    | 16    | W                |
|                        | Idle           | Power   | 42    | 42    | W                |
|                        | 1/8 Power @ 4Ω | Power   | 1460  | 1570* | W                |
|                        |                | Current Draw                                  | 15.3  | 16.5  | A <sub>rms</sub> |
|                        |                | Thermal Loss                                  | 1550  | 1670  | BTU/h            |
| @ 240V                 | Standby        | Power   | 17    | 17    | W                |
|                        | Idle           | Power   | 42    | 42    | W                |
|                        | 1/8 Power @ 4Ω | Power   | 1440  | 1940  | W                |
|                        |                | Current Draw                                  | 6.6   | 8.9   | A <sub>rms</sub> |
|                        |                | Thermal Loss                                  | 1480  | 2000  | BTU/h            |
| Power supply           |                | Universal regulated switch mode with PFC, SRM |       |       |                  |
| Nominal voltage (±10%) |                | 100-240 VAC @ 50-60Hz                         |       |       |                  |
| Operating Voltage      |                | 90-264 VAC @ 50/60 Hz                         |       |       |                  |
| AC Mains connector     |                | IEC C20 inlet (20 A max)                      |       |       |                  |

\* Limited by AC current to 1/10 Rated Power

| Networking           |   |
|----------------------|---|
| Connectivity         | Two Gigabit Ethernet ports, switched, Ethercon connectors |
| Supported topologies | Star, Daisy Chain   |
| Remote interface     | ArmoniaPlus or other preferred software                   |

| Construction |  |
|--------------|--|
| Dimensions   | 483 x 381 x 88.9 mm (19 x 15 x 3.5 in) |
| Weight       | LAM8                                   |
|              | LAM12                                  |
|              | 11.3 kg                                |
|              | 11.3 kg                                |

Data subject to change without notice



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