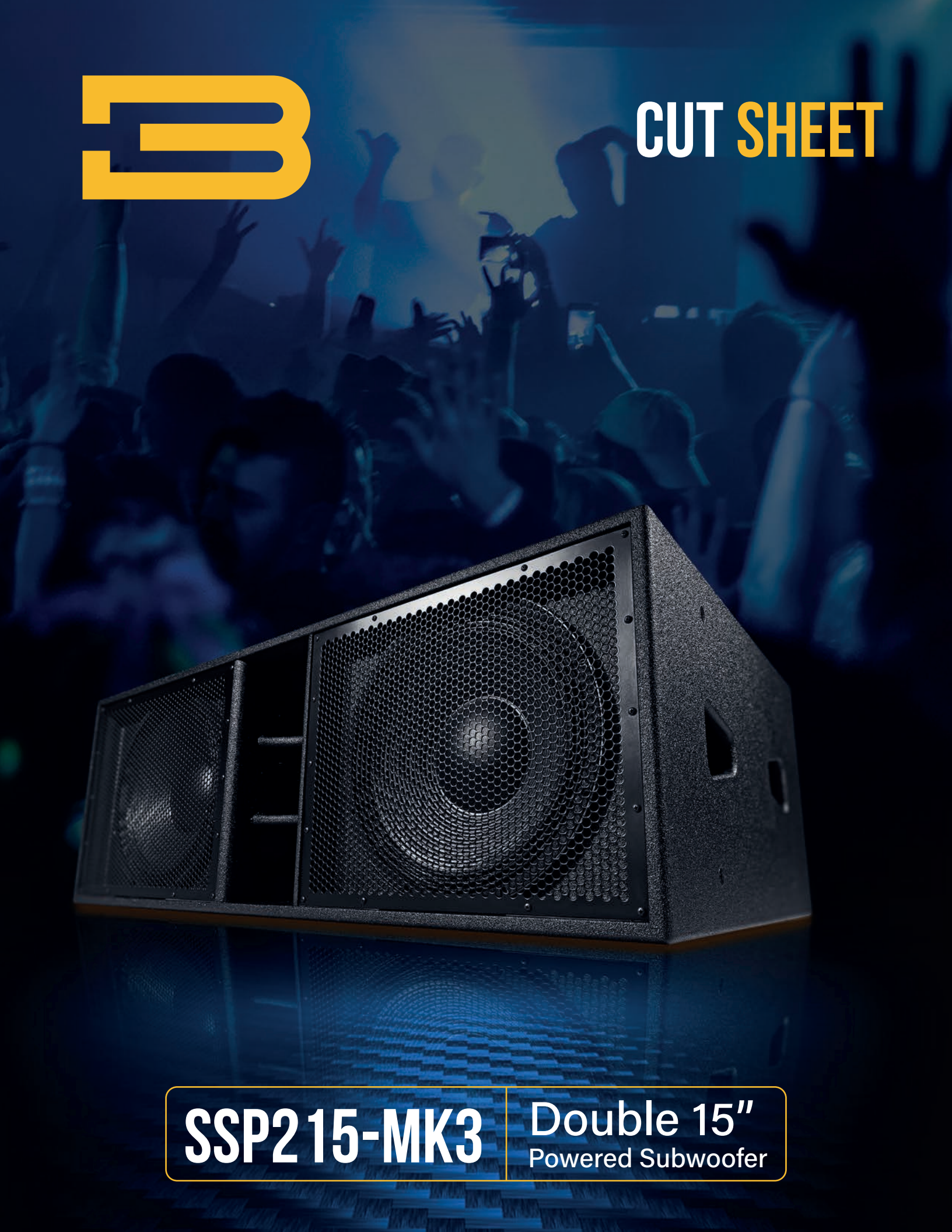
# CUT SHEET



## SSP215-MK3

Double 15”
Powered Subwoofer

# Overview

The SSP215-MK3 combines sensitivity, depth, power handling and fidelity. It offers amazing versatility and practicality for those who need a lot of low end for a wide variety of applications, particularly when space is limited. It delivers output comparable to a double-18" subwoofer from narrow spaces where double-18" subwoofers wouldn't fit.

The SSP215-MK3 is equipped with extremely rugged, very high power handling, long excursion drivers in a carefully optimized cabinet that provides sufficient volume and port area to allow its 15" woofers to deliver as much depth as possible. It provides consistent output with minimal thermal compression thanks to the several effective but transparent protection systems that are part of the integrated signal processing. The multiple protection systems work independently to prevent over-excursion, thermal overload of the voice coils, and minimize long-term thermal compression. Since they work independently, reacting to different stimuli, their effect on the transient response and peak output of the loudspeaker is almost imperceptible.

The SSP215-MK3 achieves extremely flat frequency response, measuring ±1dB from 35Hz to 100Hz. No equalization is utilized to achieve this response. Unlike designs that require equalization to achieve their specified response, the SSP215-MK3's response is part of the cabinet design, so that the sensitivity of the speaker remains consistent through its operating range. This allows it to achieve higher SPL at lower frequencies using less power than systems that require bass-boost EQ to achieve their stated response. This design philosophy is how BASSBOSS subs can deliver more SPL at lower frequencies without needing more power.

Versatility is one of the SSP215-MK3s greatest strengths. The performance of the SSP215 can be compared to almost any double-18" sub on the market but will fit where they don't. Taking up 50% less space than the SSP218, and delivering almost the same sound levels over very nearly the same frequency range, the SSP215 allows big sound to be hidden in small spaces. If you need a serious sub to fit under a low stage, this is it. If you need to fly a sub under a low ceiling, this is it. If you need a sub to go under a seating or banquette platform, this is it. If you need to hide a sub between roof support beams or Z-bar, this is it. If you need a sub to stand unobtrusively in a corner, this is it.

The enclosures feature four large rubber feet and corresponding recesses in their tops to facilitate interlocking the boxes when stacked. They share the same footprint as the SSP218, so the feet also interlock with the available wheel carts, allowing multiple boxes to be stacked on a cart for rapid deployment with minimal effort. The stacked set's footprint measures 29.5" x 48", making it easy to fit them securely in almost any commercial truck. The carts can accommodate up to 5 subwoofers, allowing for extremely tight truck-pack density. Five, four or three-high stacks or three-high cardioid stacks can be pre-configured on carts, ready to roll in and rock!

The cabinets are made from 18mm Birch plywood, are extensively braced and feature 4 ergonomic recessed handles. They are coated in weatherproof high-pressure Poly urea and the drivers are protected by a powder-coated, perforated steel grille. The cones also feature a waterproof coating.

The SSP215-MK3 features a 5000W amplifier with an auto-sensing, globally compatible power supply that can run on input voltages anywhere between 90 and 250 Volts. Full output

power is available on anything over 110V. The amplifier's peak-output voltage provides for intense high SPL hits while its sustained output is unparalleled in its ability to deliver the liquid lows. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, two large axial fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

Electrical power is converted into the much more desirable acoustical power by two robust, neodymium motor, 15-inch woofers with 4-inch (100mm) voice coils. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

# Specifications

| Acoustical | |
|---|---|
| **Loudspeaker Description** | Double 15" Self-Powered Vented Direct-Radiating Subwoofer |
| **Frequency Response (±3 dB)** | 35-100Hz |
| **Maximum Measured Output** | 133 dB 1m (half-space) |
| **Max SPL (Peak)** | 139 dB 1m (half-space) |
| **Nominal Dispersion (H° x V°)** | 360 x 360 – Cardioid Mode available with multiple boxes |

## Electrical

| | |
|---|---|
| **Amplification** | 5000 Watts Class D (2 x 2500W) |
| **Processing** | Integrated comprehensive DSP. 96kHz sampling rate with 8 pushbutton presets. All presets include high pass filters, low pass filters, phase alignment, equalization and multi-stage limiting. Storage capacity for up to 100 presets |
| **Electrical Connectors, Amp** | Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-though outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity. |
| **Electrical Outlet Connector, Amp** | Neutrik powerCON True 1 female. Outlet capacity is limited to 6A or 720W. Do not exceed the total capacity of the inlet connector. |
| **Electrical Connector Mains** | Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison) |
| **Voltage Operating Range** | 100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply) |
| **Current Draw, Nominal** | 120V 9A (nominal); 240V 4.5A (nominal) |
| **Signal Input Connector** | XLR-F |
| **Signal Output Connector** | XLR-M - full-range direct pass-through |

## Physical

| | |
|---|---|
| **Enclosure Type** | Direct radiating, vented enclosure, optimally tuned for low frequency response with high sensitivity and high power handling |
| **Transducer** | 2 x 15 in. diameter (380mm) neodymium motor woofers with 4 in. (100mm) voice coils |
| **Cabinet Construction** | CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 4 integrated handles. 1 x 35mm steel pole socket. 4 rubber feet. 4 interlocking foot pockets. 16 X M10 threaded fly points |
| **Dimensions (HxWxD)** | 17.25 in. x 48 in. x 29.5 in. (18.5 in. high with feet) |
| **Suspension System** | 16 X M10 Threaded Fly points |
| **Net Weight** | 180 lbs. (82kg) |
| **Shipping Weight** | 200 lbs. (91 kg) |
| **Exterior Finish** | High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black |
| **Grille** | Perforated, powder-coated steel |

## Optional

| | |
|---|---|
| **Transport Dollies** | Birch plywood flat cart with 4 heavy-duty locking casters. 4 pockets to accept the cabinet feet. 7 handles. Transports up to 5 cabinets. |
| **Cover** | Heavy-duty padded nylon transport covers for 1 cabinet |
| **Hardware** | M10 Shoulder Eye Bolts, M10 Side-Pull anchors |

**Our proactive philosophy causes specifications to be subject to change whenever improvements are made.**

# Pre-Installed Onboard Presets

**High-pass and low-pass filters with included phase compensation.**

| | |
|---|---|
| **Preset 1** | **35 Hz - 70 Hz** |
| **Preset 2** | **35 Hz - 75 Hz** |
| **Preset 3** | **35 Hz - 80 Hz** |
| **Preset 4** | **35 Hz - 85 Hz** |
| **Preset 5** | **35 Hz - 90 Hz** |
| **Preset 6** | **35 Hz - 95 Hz** |
| **Preset 7** | **50 Hz - 90 Hz** (Vinyl/Neighbor Mode)* |
| **Preset 8** | **Cardioid Mode** (Use only what cabinet is facing away from the audience.)** |

*Preset 7 raises the high-pass filter to 50 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

**Preset 8 is the Cardioid mode setting. More information on using Cardioid Mode can be found in the Manual.

## IMPORTANT - Update NOW!

### ControlBASS + Settings

For improved performance and stability, update your settings immediately upon receipt of your new gear!

**Major new updates are available.**

Download new settings updates and the ControlBASS app at [bassboss.com/software](bassboss.com/software)

**Instructions on using the software, linking to your computer for remote monitoring and control and updating the settings files will be provided when you sign up!**

### Register your gear

[bassboss.com/support](bassboss.com/support)

For more information and setup tips on how to get the best and most out of your system check out the Knowledge BASS [help.bassboss.com](help.bassboss.com)

**In order to achieve the flattest and smoothest frequency response, you should match the levels of your BASSBOSS subs and tops, and the low-pass filter frequency selected on the Subwoofer(s) should be closely matched to the high-pass filter frequency selected on the Top(s).**

**On the other hand, if you like your system to be bass-heavy, and you plan to turn your subs up louder than your tops, you may want to choose a preset on the tops with a high-pass frequency that's slightly above the frequency chosen on the subs. This will reduce the chance of an output peak in the crossover/overlap range and will allow slightly more output SPL from the tops.**

# SSP215-MK3

## Double 15”
Powered Subwoofer

**Need more assistance?**
**We’re here to help.**

help.bassboss.com