



CUT SHEET



SSP218-MK3

Double 18"
Powered Subwoofer

Overview

The SSP218-MK3 design combines sensitivity, depth, power handling, fidelity and value. It offers astonishing versatility and practicality for those who need exceptional bass performance for a wide variety of applications, delivering massive, reliable, consistent output with great fidelity.

The SSP218-MK3 maintains its performance over the long term and is virtually impossible to destroy thanks to the combination of extremely robust and very high power handling, long excursion drivers, a carefully optimized port and cabinet design and several effective yet transparent protection systems that are part of the integrated signal processing. The protection systems effectively prevent thermal overload of the voice coils and minimize long-term thermal compression while having virtually no effect on the transient response and maximum output of the speaker.

The SSP218-MK3 achieves an extremely flat frequency response, measuring $\pm 1.5\text{dB}$ from 32Hz to 100Hz. No equalization is used to achieve this response. Unlike designs that require equalization, the tone, response and sensitivity of the SSP218-MK3 are native to the design. Competing systems that require bass boost EQ to achieve stated response are still subject to the physical excursion and thermal limits of their drivers. The SSP218-MK3 system is optimized for full power operation throughout their operating range while the woofers remain within their X-max specification. This allows it to achieve very high output, low frequency performance with minimal distortion.

Versatility is one of the SSP218-MK3's greatest strengths. There are two 35mm pole sockets on each cabinet. Having two sockets allows the bass to be deployed horizontally or vertically while also allowing smaller overhead cabinets to be mounted on poles above the subs. Additionally, the use of these sockets allows the larger BASSBOSS overhead or front-fill cabinets to be locked into place when stacked on top of the subwoofers without the need for unsightly straps.

The cabinets feature four large rubber feet and corresponding recesses on the top to facilitate interlocking of the enclosures when stacked. The feet also interlock with the available wheeled carts, allowing multiple enclosures to be stacked on a cart for quick deployment with minimal effort. The stacked set size measures 29.5" x 48", making it easy to securely fit into almost any commercial truck. The carts can accommodate up to 4 subwoofers, allowing for extremely tight loading density. Alternatively, three-high stacks or three-high cardioid stacks can be pre-configured on the carts, ready for the party!

The cabinets are made from 18mm birch plywood, are extensively braced, and feature 4 steel bar handles. They are coated with weather-resistant high-pressure poly urea and the conductors are protected by a powder-coated perforated steel grid. The cones also feature a waterproof coating.

The SSP218-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 is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, four blower-fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

New to the MK3 are Neutrik powerCON True 1 TOP (Total Outdoor Protection) waterproof mains connectors. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers.

Electrical power is converted into the much more desirable acoustical power by two robust, neodymium motor, 18-inch woofers with massive 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 ControlBASS 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 18" Self-Powered Vented Direct-Radiating Subwoofer
Frequency Response (± 3 dB)	30-100Hz
Maximum Measured Output	136 dB 1m (half-space)
Max SPL (Peak)	139 dB 1m (half-space)
Nominal Dispersion ($H^\circ \times V^\circ$)	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-through 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 consumption, nominal	120V 9A (nominal); 240V 4.5A (nominal)
Signal input connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Direct radiating, vented enclosure, optimally tuned for extended low frequency response with high sensitivity and high power handling
Transducer	2 x 18 in. diameter (457mm) neodymium motor woofers with 4 in. (100mm) voice coils
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 4 steel bar handles. 2 x 35mm steel pole sockets. 4 rubber feet. 4 interlocking foot pockets. 16 X M10 threaded fly points
Dimensions (HxWxD)	22.5 in. x 48 in. x 29.5 in. (23.25 in. high with feet)
Suspension System	16 X M10 Threaded Fly points
Net Weight	199 lbs. (90 kg)
Shipping Weight	230 lbs. (104 kg)
Exterior Finish	High-pressure, rugged, waterproof, textured black bonded polyurea coating
Grille	Perforated, powder-coated steel
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

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 4 cabinets.
Cover	Heavy-duty padded nylon transport covers for 1or 2 cabinets
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 included.

Preset 1	30 Hz - 70 Hz
Preset 2	30 Hz - 75 Hz
Preset 3	30 Hz - 80 Hz
Preset 4	35 Hz - 85 Hz
Preset 5	35 Hz - 90 Hz
Preset 6	35 Hz - 95 Hz
Preset 7	40 Hz - 100 Hz (Vinyl/Good 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

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

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

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.

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

help.bassboss.com