



SSP118-MK3

Single 18"
Powered
Subwoofer



CUTSHEET



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OVERVIEW

The SSP118-MK3 Single 18" Powered Subwoofer gives you low frequency output to 30 Hz, typical of an average Single 18", from a single 18" box. Delivering output to frequencies lower than many Single 18" cabinets, each individual SSP118-MK3 does so in about half the space and considerably less weight. This is a very practical consideration from both a size and cost point of view.

For Mobile Professionals who provide superior sound quality, the SSP118-MK3 allows you to deliver premium service with less equipment and labor. With two SSP118-MK3 Subwoofers, you will have the output of one of the worlds finest Single-18" subwoofers, the BASSBOSS SSP218, divided into two smaller, more manageable pieces.

The cabinets are constructed from 18mm Baltic Birch plywood. Each cabinet features dado and rabbet joinery throughout, so all seams are extremely strong and long-lasting. Stainless steel bolts are used to secure the drivers, amplifier and pole sockets so that the fasteners will never rust or seize up. The cabinet is finished in an extremely rugged, black polyurea coating and the driver is protected by a black powder-coated, perforated steel grille.

The SSP118-MK3 features a 2500W amplifier with an auto-sensing, globally compatible power supply that can run on mains supplies anywhere between 90 and 250 Volts. Full output power is available on anything over 110V. The amplifier's high 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 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 4.5-inch (115mm) 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 software or firmware updates. The ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Firmware 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

Description:	Subwoofer, single 18" powered and processed
Frequency Response (± 3 dB):	30 - 100 Hz (Preset dependent)
Maximum Measured Output:	130 dB SPL, 1 meter, half-space (ground plane)
Max SPL (Peak)*:	136 dB
Nominal Dispersion ($H^\circ \times V^\circ$):	360 x 360 - Cardioid mode available with multiple boxes

Electrical

Amplification:	2500 Watt RMS Class D Amplifier
Processing:	Integrated comprehensive DSP provides high pass, low pass, phase alignment and limiting
Electrical Connectors, Amp:	Neutrik powerCON True 1 TOP waterproof connectors
Electrical Connector, Mains:	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15
Voltage Operating Range:	100-240V
Current Draw, Nominal:	4.6A @ 120 volts
Current Draw, Peak:	20A
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M (Direct pass-through, unprocessed)

Physical

Enclosure Type:	Vented Direct Radiator
Transducer:	1 x 18" diameter (457 mm) neodymium motor woofer with 4.5 in. (115mm) copper winding voice coil and 56 mm (2.2") peak to peak excursion
Cabinet Construction:	CNC machined 18 mm Baltic Birch plywood with dado and Rabbet joinery
Dimensions (HxWxD):	22.5 in. x 30 in. x 24 in. (23.25 in. high with feet)
Net Weight:	125 lbs. (82 kg)
Shipping Weight:	140 lbs. (104 kg)
Exterior Finish:	Weatherproof bonded high-pressure polyurethane
Grille:	Perforated, powder-coated steel
Pole Sockets:	1 (35 mm) pole sockets
Handles:	4 Integrated handles
Feet:	4 interlocking rubber feet
Suspension System:	16 X M10 threaded flypoints

Optional

Transport Dollies:	Dolly cart with 4 locking casters and recesses to accept interlocking cabinet feet
Cover:	Heavy-duty padded nylon transport covers for 1 cabinet
Online Information:	bassboss.com/SSP118

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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 - 30 Hz - 70 Hz

Preset 2 - 30 Hz - 75 Hz

Preset 3 - 30 Hz - 80 Hz

Preset 4 - 30 Hz - 85 Hz

Preset 5 - 30 Hz - 90 Hz

Preset 6 - 30 Hz - 95 Hz

Preset 7 - 40 Hz - 100 Hz (Vinyl/Good Neighbor Mode)-

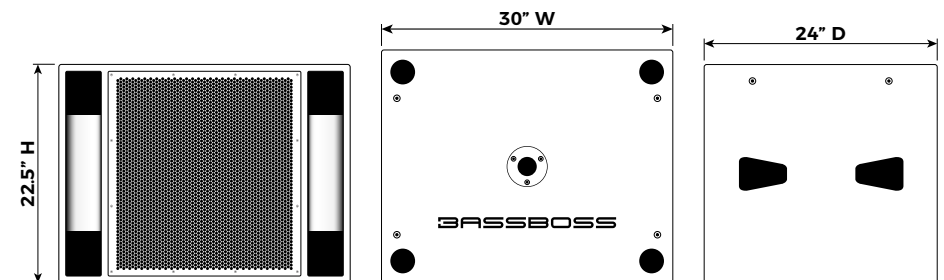
Preset 8 - Cardioid Mode (Use only when cabinet is facing away from audience)

*Preset 7 raises the high-pass filter to 30 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 on page 10.

Information and setup tips about how to get the best and most out of your system:

bassboss.com/edu





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