



CUT SHEET



DJ18S-MK3

Single 18"
Powered Subwoofer

Overview

The DJ18S-MK3 is a premium-quality subwoofer which delivers deep bass at levels far higher than would be expected from its size. Suitable for the truly bass-insatiable who focus on modern music with frequencies well below the usual 50-100Hz range, this compact sub weighs only 110 lbs and delivers output down to 27Hz (-3dB).

The DJ18S-MK3 is a single 18-inch direct-radiating subwoofer featuring a long-excursion woofer loaded into a vented enclosure that is optimally tuned to deliver flat frequency response to very low frequencies with high sensitivity. The cabinet was designed to minimize mass and maximize efficiency. The point is to do less heavy lifting and deliver more heavy bass.

The DJ18S-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 intense high SPL hits, while its sustained output is unparalleled in its ability to deliver those "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 are engaged 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. Waterproof mains connectors, along with a totally isolated input connection section and cones that are waterproofed, make the MK3 series the powered loudspeakers that can be used outdoors without fear of what the weather will bring, or used indoors without fear of what the parties fling.

Electrical power is converted into the much more desirable acoustical power by a robust, neodymium motor, 18-inch woofer with a massive 4.5-inch (115mm) copper-wound voice coil. 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 so 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.

Within the ControlBASS software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of groups of 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	Subwoofer, single 18" powered and processed
Frequency Response (± 3 dB)	27 - 100 Hz (Preset dependent)
Maximum Measured Output	129 dB 1m (half-space)
Max SPL (Peak)	132 dB * 1m (half-space)
Nominal Dispersion (H° x V°)	360 x 360 – Cardioid Mode Available with Multiple Boxes

Electrical

Amplification	2500 Watts Class D
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 Input Connector, 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 10A or 1200W. 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 4.6A (nominal); 240V 2.3A (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 tuned for high sensitivity at low frequencies
Transducer	1 x 18 in. diameter (457mm) neodymium motor woofer with 4.5 in. (115mm) voice coil
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 2 integrated handles. 1 x 35mm steel pole socket. 4 rubber feet. 16 T-nuts and bolts for mounting optional casters.
Dimensions (HxWxD)	27.5 in. x 20.5 in. x 29.5 in. (28.75 in. high with feet)
Net Weight	110 lbs. (50 kg)
Shipping Weight	125 lbs. (57 kg)
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black.
Grille	Perforated, powder-coated steel
Pole Sockets	1 (35 mm)
Handles	2 Integrated Handles
Feet	4 rubber feet
Caster Mounts	Attachment points and hardware for four casters are provided on back of cabinet

Optional

Cover	Heavy-duty padded nylon transport cover
What's Included	Locking 4" (100mm) swivel casters kit, 4 pieces
Dollies	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card

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	27 Hz - 70 Hz
Preset 2	27 Hz - 75 Hz
Preset 3	27 Hz - 80 Hz
Preset 4	27 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 40 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, see manual for more information.

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