



CUT SHEET



ZV28-MK3

Double 18"
Powered Subwoofer

Overview

The BASSBOSS ZV28-MK3 Subwoofer is designed to bring you up close and personal with the boundaries of audible sound. Reveal notes unfathomable with other subwoofers, delivered effortlessly. Frequencies that push other systems to their limits are brought to life powerfully and smoothly. The ZV28-MK3 isn't just about hearing; it's about feeling the power of the music.

The ZV28-MK3 is a vented, direct radiating subwoofer with a substantial internal volume, tuned to a low frequency. Advanced design features such as anti-standing wave baffles and pass-through dampers help reduce upper resonances while oversized ports enhance low-frequency performance at high output.

The ZV28-MK3 is built to run at full throttle. The woofers are kept within safe thermal and excursion limits throughout their operating range regardless of input level. The design guarantees a consistently flat frequency response, with a pair delivering -3dB to an impressive 21 Hz. This performance is achieved without any need for equalization, and is available on demand at high levels in real-world scenarios.

Unlike other subs that may promise much but deliver little, the ZV28-MK3 actually performs as impressively in the field as it seems to on paper. Be cautious of loudspeaker systems that rely on bass-boost processing to meet their claimed frequency response, as they can often fall short when it comes to delivering quality sound at maximum power.

The ZV28-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, 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. 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 partiers bring.)

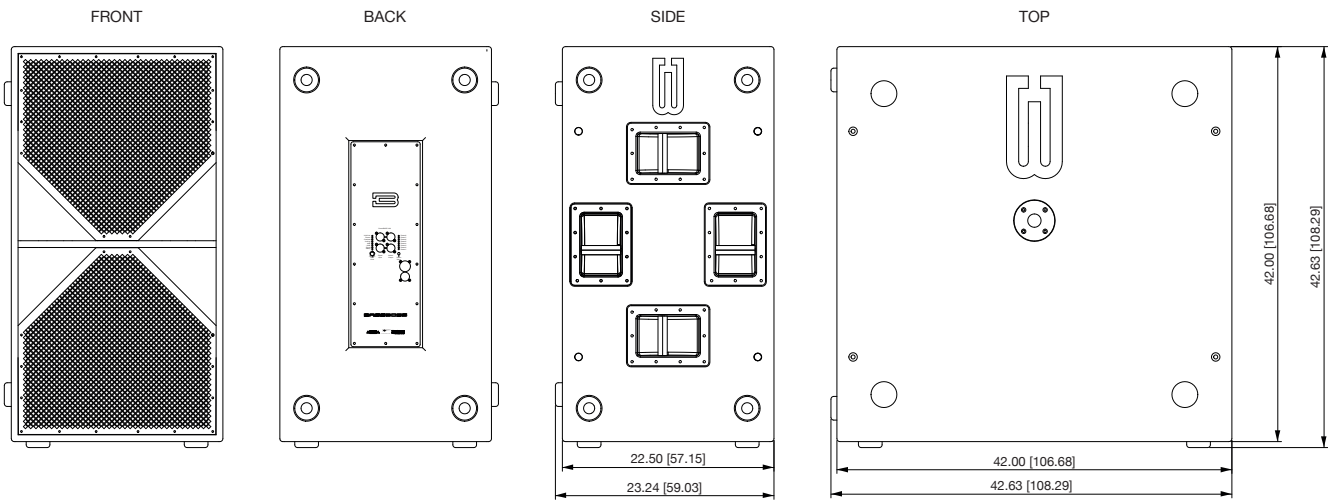
Electrical power is converted into the much more desirable acoustical power by two robust, neodymium motor, 18-inch woofers with massive 4.5-inch (115mm) voice coils. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than 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 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 18" Self-Powered Vented Direct-Radiating Extended-depth Sub
Frequency Response (± 3 dB)	23 – 90Hz
Maximum Measured Output	134 dB 1m (half-space)
Max SPL (Peak)	137 dB 1m (half-space)
Nominal Dispersion ($H^\circ \times V^\circ$)	360 x 360 - Cardioid mode available with multiple cabinets

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 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 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
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 linear output and high power handling
Transducer	2 x 18" (457mm) neodymium motor woofers with 4.5 in. (115mm) CCAW voice coils
Cabinet Construction	CNC machined 18mm Birch plywood, extensive bracing, dado joinery. 8 steel bar handles. 2 x 35mm steel pole sockets. 12 rubber feet. 4 interlocking foot pockets. 16 X M10 threaded fly points
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black
Suspension System	16 X M10 Threaded Fly points
Grille	Perforated, powder-coated steel
Dimensions (HxWxD)	22.5 in. x 42 in. x 42 in. (Height of feet 7/8")
Net Weight	235 lbs. (106.5 kg)
Shipping Weight	265 lbs. (120.2 kg)
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card

Optional

Dollies	Birch plywood cart; 4 locking wheels; sockets for cabinet feet. Vertical Transports 1 cabinet. Horizontal Transports up to 4 cabinets
Cover	Heavy-duty padded nylon transport covers for vertical or horizontal transport
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	20Hz Butterworth 24dB/octave high-pass filter to 65 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 2	20Hz Butterworth 24dB/octave high-pass filter to 70 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 3	20Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 4	20Hz Butterworth 24dB/octave high-pass filter to 80 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 5	20Hz Butterworth 24dB/octave high-pass filter to 85 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 6	20Hz Butterworth 24dB/octave high-pass filter to 90 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 7	30Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter (Good Neighbor Mode)*
Preset 8	Cardioid Mode (Two subs forward - one back. Use only when cabinet is facing away from audience.)**
Preset 9	25Hz Butterworth 24dB/octave high-pass filter to 65 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 10	25Hz Butterworth 24dB/octave high-pass filter to 70 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 11	25Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 12	25Hz Butterworth 24dB/octave high-pass filter to 80 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 13	25Hz Butterworth 24dB/octave high-pass filter to 85 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 14	25Hz Butterworth 24dB/octave high-pass filter to 90 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 15	40Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter (Vinyl/Very Good Neighbor Mode)***
Preset 16	Cardioid Mode (One sub forward - one back. 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 in the manual.

*** Preset 15 reduces the low bass output even further by raising the high-pass filter to 40 Hz. Preset 15 should be used when playing vinyl records, dealing with noise complaints from deep bass, or when there is risk of infrasonic feedback.

ControlBASS Software + Settings Updates

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

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

help.bassboss.com