

VIBE · COMPACT BASS · 6.5" PORTED ENCLOSURE · 300 W RMS · DVC

BAMIT6

6.5" compact subwoofer enclosure · Dual 2-ohm voice coil · 4-layer winding

We built the BAMIT6 for a problem we kept running into: people want proper bass, but they don't want to lose half their boot to get it. So we made a finished, factory-tuned sub that fits behind a passenger seat and still hits hard.

It's small. 270 mm wide, 260 mm deep, 210 mm tall. It's a sealed-and-braced MDF cabinet with a 6.5" dual-voice-coil driver already mounted and already tuned. You wire it to an amp and it sounds the way the engineering says it should. No fabricator, no guesswork, no empty box that arrives with no port tuning printed on it.

That last part matters more than most people realise. A subwoofer's low end comes mostly from the box it sits in, not the driver on its own. Get the box wrong and even a good driver sounds thin or boomy. We did the box and the driver together, as one job, and validated the pair before it ever shipped.



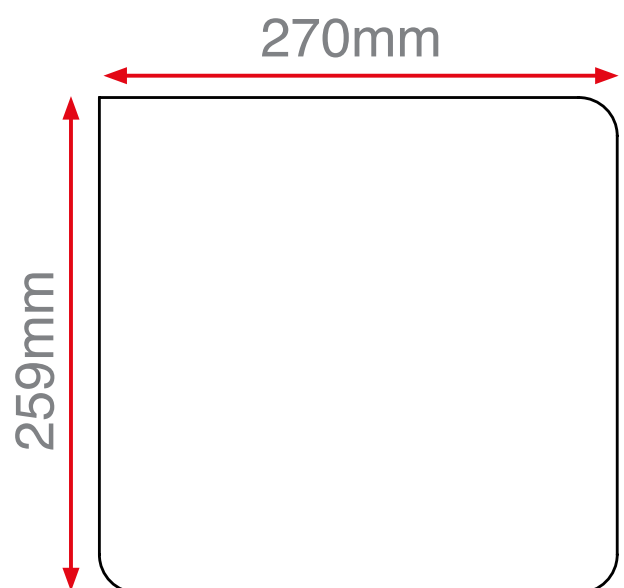
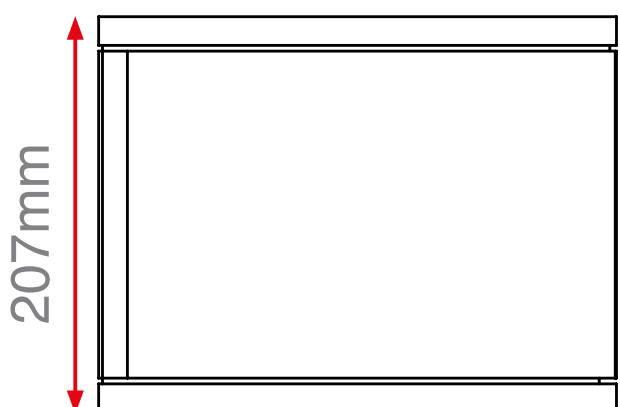
Paper composite cone with 1 piece dustcap for smooth rich bass response.



High roll foam surround for controlled excursion even with large amounts of XMAX.



Quick release quad terminal for easy and convenient wiring.



SIX REASONS THE BAMIT6 OUTPERFORMS ITS FOOTPRINT

THE TUNING IS ALREADY DONE — SO IT JUST WORKS

You're getting the result of work a custom installer would charge you a separate fee to do.

We designed the cabinet and the driver as one system. The internal volume is matched to the driver, and it's port-loaded through a 175 × 15 mm slot tuned to pull the most useful output out of that 50.5 mm voice-coil motor. When the box and the driver are engineered around each other from the start, you don't have to compromise — and you don't have to find out the hard way that a generic enclosure was the wrong volume.

IT CONNECTS TO WHATEVER AMP YOU'VE GOT

Two independent 2-ohm voice coils give you two valid ways to connect it.

Parallel for a 1-ohm mono load or series for a 4-ohm mono load.

That covers just about any monoblock or stereo amp you're likely to specify. If your amp is happy at 1 ohm, that's where you get the most out of a driver this size — but the point is you're not boxed into one wiring scheme. You adapt the sub to the amp, not the other way round.

IT HITS WITH REAL ATTACK — NOT JUST VOLUME

We wound the voice coil in four layers of copper instead of the usual two.

Most entry-tier 6.5" subs run a two-layer coil. We went to four, at a 26 mm winding height, which packs more copper into the magnetic gap. That pushes the motor force (the Bl figure) up to 6.36 T·m, which is a fancy way of saying the motor has more grip on the cone for the same amount of current. In plain terms: the kick-drum hit lands properly. Lighter-coil drivers in this class can't quite do that — they go loud, but the leading edge of the note gets soft.

THERE'S A SERIOUS MAGNET BEHIND IT

A 6.5" driver carrying 2.1 kilograms of magnet is doing something unusual.

Behind the chassis we stacked two Y35 ferrite rings (134 × 60 × 17 mm each) into a single double-height motor. That gives the gap the flux density a sub driver actually needs, without paying the price premium of going to neodymium. A motor this heavy on a cone this small is a quiet tell of where the budget went — into the part of the driver that does the work, rather than the badge.

IT STAYS CONSISTENT WHEN YOU PUSH IT FOR HOURS

We used an aluminium voice-coil former so the heat has somewhere to go.

A sub working hard gets hot, and heat is the enemy of consistent output. Paper and plastic formers, common at this size and price, trap that heat in the windings until the coil starts to compress and the bass goes flat. Aluminium conducts it straight out into the chassis and the motor the moment it's made. So instead of a sound that slowly loses its punch across a long listening session, you get the same output at the end of the night as at the start.

THE SPECS ARE HONEST, AND THEY ADD UP

300 watts RMS, continuous. 600 watts peak. A 30 Hz lower extension. 6.36 T·m of motor force and a 60 g moving mass tuned to wring deep output from a small cone.

It covers the dedicated sub band cleanly and hands off naturally to a 6.5" midbass above it — which is exactly what you want if you're building an active multi-way front stage and need a proper foundation under it. The amp connects at a rear-mounted quad post quick release connector, so termination is simple, and the whole thing is wrapped in black carpet because that's what survives life in a boot.

WHAT'S IT FOR?

- Compact car installs where you can't give up boot space to a custom build
- Behind-seat fits in extended-cab pickups, vans and 4x4s
- Active multi-way systems that need a dedicated, tuned sub below the midbass
- Marine and powersports installs, where a finished cabinet beats a loose driver-plus-box
- Replacing a tired OEM sub with something properly engineered
- Anyone who'd rather not specify an empty box and then guess at the tuning



6.5” SPL ENCLOSURE



BA RANGE

Designed with enthusiasts and competitors in mind, great performance and sound with amazing reliability. The Subwoofer utilities a high roll surround to enhance this performance with ease.



QUICK RELEASE TERMINAL

Utilizing the VIBE quick plug terminal allowing you to remove the enclosure from the vehicle in under 10 seconds



BEST DESIGN

Sharing the look of the bigger BA woofers, same one piece dustcap, magnet boot and signature VIBE Design with the same design choices that make those woofers great, large terminals and great motor parts.

SUBWOOFER EXTRAS

- Dual 2 ohm for increased wiring flexibility
- Torsion basket for increased rigidity
- Blackair signature Styling
- Quick release terminal
- High roll surround
- Non Pressed Paper cone
- 2” High power Voice Coil
- Steel Basket
- Down-firing Capability with removable anti vibration feet



TECHNICAL SPECIFICATIONS

ENCLOSURE SPECIFICATION	
DRIVER CONFIGURATION	6.5" (165 mm) single driver, dual voice coil
ENCLOSURE TYPE	Ported (slot-loaded)
PORT DIMENSIONS	175 × 15 × 240 mm slot port
CABINET DIMENSIONS (W × D × H)	270 × 260 × 210 mm
CABINET MATERIAL	MDF, sealed and braced
EXTERNAL COVERING	Black carpet
TERMINAL TYPE	Junction box, rear-mounted
MOUNTING HARDWARE GASKET	PVC
DRIVER SPECIFICATION	
DRIVER SIZE	6.5" (165 mm)
RMS POWER	300 W
PEAK POWER	600 W
SENSITIVITY	82.32 dB (1 W / 1 m)
FREQUENCY RESPONSE	30 Hz – 1 kHz
NOMINAL IMPEDANCE	Dual 2 Ω (DVC)
WIRING OPTIONS	1 Ω mono (parallel) · 4 Ω mono (series) · Stereo
CONE MATERIAL	Treated paper
SURROUND	Foam
DUST CAP	Polypropylene
BASKET	Stamped steel
SPIDER	Treated cotton-phenolic (NPC), 132 mm
VOICE COIL FORMER	Aluminium, 50.5 mm (2 inch)
VOICE COIL WINDING	Copper, 26 mm height, 4-layer
MAGNET STRUCTURE	Y35 ferrite, double-stacked, 134 × 60 × 17 mm × 2
MAGNET TOTAL MASS	2120 g
DRIVER MOUNTING DEPTH	100 mm
DRIVER MOUNTING DIAMETER	156 mm

Free-Air Resonance	<i>Fs</i>	50.54 Hz
Sensitivity	<i>SPL</i>	82.32 dB
Effective Cone Area	<i>Sd</i>	143.14 cm²
Motor Force Factor	<i>Bl</i>	6.36 T·m
Mechanical Q	<i>Qms</i>	3.93
Electrical Q	<i>Qes</i>	0.57
Total Q	<i>Qts</i>	0.50
Equivalent Volume of Compliance	<i>Vas</i>	4.71 L
Mechanical Compliance	<i>Cms</i>	0.1647 mm/N
Moving Mass	<i>Mms</i>	60.21 g
Voice Coil Inductance	<i>Le</i>	0.74 mH
Inductance at 10 kHz	<i>L10</i>	0.30 mH
Minimum Impedance	<i>Zmin</i>	1.54 Ω (per coil pair, 1 Ω wiring)