

SB-Series Box Subwoofers

THX



642e SB in Gloss Black



444 SB in Satin Black



334 SB in Satin Black



224 SB in Satin Black



Consistent Critic's Choice

No quality home theater or music system is complete without the ability to effortlessly reproduce the last one-and-a-half octaves of sound—the deep bass.

A powered subwoofer provides the deep bass that adds drama to the action scenes in a movie and makes music come alive. Clean, powerful deep bass is what separates a great sound system from a merely good one.

Atlantic subwoofers use the same design approach in all our subs—from low-priced to high—to produce consistently realistic, convincing bass effects. Our subs vary in how loud they'll play and what size room they're most suited to. But our quality doesn't vary. Big room or small, from loud to soft, the sound quality of an Atlantic Technology subwoofer is always top-notch.

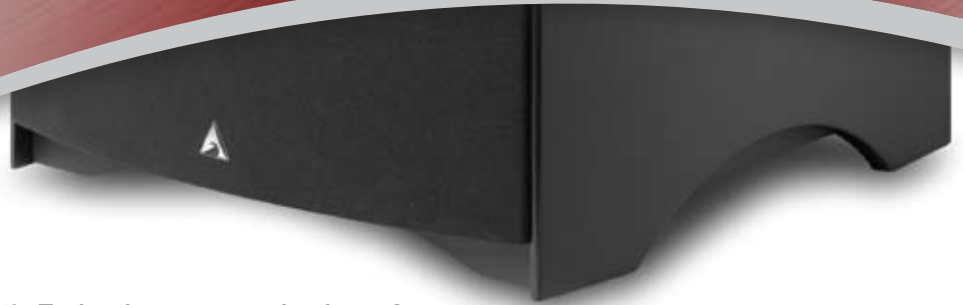
Our subwoofers include powerful low-distortion amplifiers and low-resonance, long-throw drivers, housed in a heavily-braced, non-resonant sealed box enclosure. We have chosen this "acoustic suspension" approach because it ensures smooth, uniform bass all the way down to the lowest audible frequencies with no unwanted peaks or dips. It does not hype any frequency

and it never falls into the trap of substituting loud, muddy "one note" bass in place of accurate, extended, natural response.

But Atlantic doesn't stop there. We have developed an exclusive design feature called Clear Filter Technology™ that assures clean, articulate, musical bass reproduction at all times, regardless of how loud you play our subs. Lots of companies have "limiters," "feedback loops" or other distortion-reducing circuits to prevent audible degradation of the sound at high volumes. These work fine as far as they go, but they don't go far enough. In addition to conventional distortion reduction methods, Atlantic has incorporated special circuitry into the subwoofer amplifier that actually eliminates the deleterious effects that the enclosure itself has on the sound. That's why other subwoofers, regardless of their power ratings or their limiters, can't match the sound of an Atlantic subwoofer for detail and musical accuracy. CFT™ was initially developed for our award-winning System 8200, but this benefit can now be found in all Atlantic subwoofers, regardless of price.



SB-Series Box Subwoofers



Atlantic Technology powered subwoofers have been engineered using the latest technology and finest components available.

High-Performance Drivers – Long-throw composite cone drivers with vented motor structures and oversized, high temperature voice coils. These powerful drivers have very stiff cones that act like a piston throughout their operating range. Their massive motor assemblies and high temperature component parts deliver exceptional performance and reliability.

Sealed Enclosure Design – Sealed enclosure woofer designs are inherently low in distortion, and deliver deep smooth bass response with a gradual and predictable roll-off below resonance. As with all Atlantic Technology subwoofers, we have paid close attention to providing accurate musical bass reproduction along with terrific special effects.

High-Current Amplifiers – The output stages of these amplifiers are capable of very high current delivery for exceptional driver control and cool operation. They have been precision matched and equalized to our rugged drivers.

Together they deliver powerful, controlled bass with great articulation and authority, with a useful in-room working frequency range of 25Hz to 150Hz.

Adjustable (40Hz to 140Hz) @18dB per Octave Low Pass Crossover – The steep upper end roll-off slope of 18dB per octave allows for much better bass integration with the satellite speakers while making the woofer less localizable.

Complete Hookup Flexibility – The subwoofers each have low level inputs and low level outputs. The outputs allow daisy chaining of multiple subwoofers, or act as a return path back to the processor.

Phase Invert Switch – This switch allows precise acoustic matching with satellite speaker systems whose output may be phase reversed. This switch also allows you to compensate for unusual room acoustics that occur when the woofer is physically separated from the main speakers.

Front Panel Level Control – Allows convenient adjustment of subwoofer level without bending over to reach the rear panel.

Automatic Standby Operation with LED Indicator – Automatic standby features signal sensing turn-on with a 7-10 minute turn-off delay. There is a multi-color LED status indicator that lets you know when the unit is on or in standby. Automatic Standby can be defeated by placing the rear-mounted switch in the ON position.

Specifications

	642e SB	444 SB	334 SB	224 SB
Type/Features	THX Select powered sub High efficiency tracking amplifier	Powered sub, sealed enclosure High current amplifier	Powered sub, sealed enclosure High current amplifier	Powered sub, sealed enclosure High current amplifier
Bass Driver	12" (305mm) long-throw	12" (305mm) long-throw	10" (245mm) long-throw	10" (254mm) long-throw
Output Power	350W RMS	325W RMS	220W RMS	180W RMS
Distortion (amplifier)	<0.5%	<0.5%	<0.5%	<0.5%
Frequency Response	25Hz – 300Hz ±3 dB	25Hz – 250Hz ±3 dB	30Hz – 250Hz ±3 dB	34Hz – 250Hz ±3 dB
Low Level (line)	20k Ohms	10k Ohms	10k Ohms	10k Ohms
Peak Output	107dB SPL into 2000 ft ³	105dB SPL into 2000 ft ³	104dB SPL into 2000 ft ³	102dB SPL into 1500 ft ³
Dimensions (WxHxD)	19 x 21 x 20½ in	16½ x 16¾ x 16 in	15¼ x 15 x 15½ in	14¼ x 13¼ x 15½ in
(Depth with Grille)	483 x 534 x 521mm	418 x 430 x 407mm	388 x 380 x 397mm	368 x 337 x 391mm
Weight	65 lbs (29.5 kg)	42lbs (19.1 kg)	35 lbs (15.9 kg)	31lbs (14.1 kg)
Power Requirements	110-120/220-240V, 50/60Hz	110-120/220-240V, 50/60Hz	110-120/220-240V, 50/60Hz	110-120/220-240V, 50/60Hz
Colors Available	Gloss and Satin Black	Satin Black	Satin Black	Satin Black



Gloss Black
(642e only)

Satin Black

Colors Available



642e SB Front Panel Level Control



224, 334, 444 SB Front Panel Level Control



642e's Powerhouse 12" Driver

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