

# SB-Series Box Subwoofers



642e SB in Gloss Black



422 SB in Satin Black



212 SB in Satin Black



102 SB in Silver



## Subwoofer of 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 \$20,000 System 8200, but this benefit can now be found in all Atlantic subwoofers, regardless of price.



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The Atlantic Technology powered subwoofer has 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 pistons 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.

Many subwoofers offer specifications that look great on paper, but in the real world deliver less than promised. Atlantic Technology subwoofers are over-designed to ensure

that they will deliver their rated performance in your room, when properly placed and adjusted.

**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 two low level inputs and two low level outputs. The outputs allow daisy chaining of multiple subwoofers, or 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 (642 and 422 SB)** – Allows convenient adjustment of subwoofer level.

**Automatic Standby Operation with LED Indicator**  
Automatic standby features signal sensing turn-on with a 7-10 minute turn-off delay. There's 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.



642e's Powerhouse 12" Driver



642e and 422 Front Panel Level Control



Gloss Black

Satin Black

Silver

Colors Available on Selected Models

## Specifications

|                               | 642e SB  | 422 SB                                | 212 SB                                | 102 SB                                |
|-------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| <b>Type/Features</b>          | THX Select powered sub<br>High efficiency tracking amplifier | Powered sub<br>High current amplifier | Powered sub<br>High current amplifier | Powered sub<br>High current amplifier |
| <b>Bass Driver</b>            | 12" (305mm) long-throw                                       | 12" (305mm) long-throw                | 10" (245mm) long-throw                | 8" (203mm) long-throw, down-firing    |
| <b>Output Power</b>           | 300W RMS   | 225W RMS                              | 125W RMS                              | 100W RMS                              |
| <b>Distortion (amplifier)</b> | <0.5%  | <0.5%                                 | <0.5%                                 | <0.5%                                 |
| <b>Frequency Response</b>     | 25Hz – 300Hz ±3 dB   | 25Hz – 250Hz ±3 dB                    | 30Hz – 250Hz ±3 dB                    | 34Hz – 250Hz ±3 dB                    |
| <b>Low Level (line)</b>       | 20k Ohms   | 20k Ohms                              | 20k Ohms                              | 20k Ohms                              |
| <b>Peak Output</b>            | 107dB SPL into 2000 ft <sup>3</sup>                          | 103dB SPL into 2000 ft <sup>3</sup>   | 102dB SPL into 2000 ft <sup>3</sup>   | 102dB SPL into 1500 ft <sup>3</sup>   |
| <b>Dimensions (WxHxD)</b>     | 19 x 21 x 18½ in   | 17¼ x 17¼ x 16¾ in                    | 15¼ x 15 x 16.9¾ in                   | 13¼ x 13 x 12¼ in                     |
| <b>including side panels</b>  | 483 x 534 x 470mm  | 438 x 450 x 430mm                     | 388 x 380 x 430mm                     | 335 x 330 x 310mm                     |
| <b>Weight</b>                 | 65 lbs (29.5 kg)   | 44lbs (20 kg)                         | 37.5 lbs (29.5 kg)                    | 31lbs (14.1 kg)                       |
| <b>Power Requirements</b>     | 110-120/220-240V, 50/60Hz                                    | 110-120/220-240V, 50/60Hz             | 110-120/220-240V, 50/60Hz             | 110-120/220-240V, 50/60Hz             |
| <b>Colors Available</b>       | Gloss and Satin Black  | Gloss and Satin Black                 | Gloss and Satin Black                 | Satin Black and Silver                |



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