

# Alpha T20 Tower Speaker



N 43°48'59.5"  
W 79°02'20.5"



## Tower Speakers

Engineered to give your system presence in any room, PSB tower speakers deliver what serious audiophiles have come to expect from one of the world's most reviewed speaker brands; a natural-sounding speaker that brings soundtracks to life with rich details. PSB towers were born from years of defying boundaries and carry the sound pedigree that PSB has been renowned for.

## Behind the Alpha Series

First designed and manufactured in a small Canadian town in 1991, the Alpha Series started with the simple idea of creating affordable speakers that were focused purely on performance. With passion and dedication in pursuit of a natural sounding speaker, and by leveraging decades of research conducted at the Canadian National Research Council by PSB's founder, Paul Barton, the Alphas quickly rose to be one of the world's most iconic speakers and are still the reference benchmark for entry-level hi-fi speakers today.

The newly designed Alphas look to continue their legacy by staying true to the original concept from the '70s and combining it with today's latest cutting-edge technologies. Powerful and smooth, the all-new Alpha Series has been rebuilt with enhanced custom drivers and a new crossover design that works perfectly together to deliver natural, detailed sound with precision and less distortion. In a home theatre or stereo setup, the new Alphas outperform the originals in every measurement and will bring your music and movies to life.

- ¾" Black anodized aluminium dome tweeter with front waveguide
- 5.25" Textured polypropylene woofer with rubber surround
- Bass reflex cabinet design with a rear-firing port
- Acoustically-transparent detachable magnetic grilles
- Dual five-way gold-plated binding post speaker terminals
- High-quality woodgrain vinyl finish
- Available in Black Ash or Walnut

## Alpha T20 Tower Speaker

Signature speaker for both sound and aesthetics.

The PSB T20 Tower delivers the highest quality acoustics in the new Alpha Series and will easily fill any size room with lush, full-bodied sound. Leveraging the latest research in acoustic design and the most advanced cabinet and driver technologies, the all-new Alpha tower adds an additional custom 5.25" woofer, while utilizing the Alpha Series' patent tweeter and crossover design, to deliver bigger and bolder sound with flawless imaging. With a centre channel to match, the new T20 tower is the perfect start to creating the ultimate surround system.

### Lifelike acoustics and detail

The T20 uses a 0.75" black anodized aluminium dome tweeter to extend the high-frequency response further than any Alpha ever before while lowering distortion to deliver a lush soundstage full of details. Unlike lesser designs at this price, all of the new Alpha Series tweeters employ ferrofluid cooling to prevent dynamic compression and a neodymium magnet for high sensitivity.

### Developed for deep, detailed bass

Featuring PSB's exclusive dual 5.25" woofer connected to a dual-layer voice coil for incredible conductivity, the newest Alpha Series tower provides remarkable low-frequency response and the exceptional efficiency for a speaker at this price. Starting with a specially textured polypropylene cone that lowers distortion and reduces breakup, the woofer is perfectly matched with the tweeter at the crossover for a smooth sounding transition between high and low frequencies. It's also backed with a rear-firing port that uses bass flex to tightly control the bass response and extend it even lower.

### Reference crossover design

The redesigned Alpha Series tower features a new crossover that exceeds speaker standards with a innovative design that delivers the tightest control and the flattest frequency response. Developed for more than directing low and high frequencies to the individual drivers, the crossover used in the T20 employs a very advanced Linkwitz-Riley acoustic filter in the cross to lower distortion and create a large, detailed soundstage for the best listening experience.

### Crafted with precision

Using a special MDF material and a unique combination of wall thickness and bracing, the Alpha T20 Tower flawlessly controls resonances while leveraging a light internal material that has been accurately positioned to reduce standing waves. The sturdy, well-constructed cabinet is finished with a high-quality woodgrain vinyl and features acoustically-transparent magnetic grilles that make the speakers disappear into your décor without sonic interference.

## SPECIFICATIONS

FREQUENCY RESPONSE		(Anechoic Chamber)
On Axis @ 0° ± 3dB	36-21,000Hz	
On Axis @ 0°±1 1/2dB	54-20,000Hz	
Off Axis @ 30°±3dB	54-10,000Hz	
LF Cutoff -10dB	28Hz	
SENSITIVITY		(1 W (2.83 V) @ 1M, IEC-Filtered pink noise, C-weighted)
Anechoic Chamber	88dB	
Typical Listening Room	90dB	
IMPEDANCE		
Nominal	8 Ohms	
Minimum	6 Ohms	
INPUT POWER		(RMS, Clipping < 10% Time)
Recommended	15-120 Watts	
Program	60 Watts	
ACOUSTIC DESIGN		
Tweeter (Nominal)	3/4" (19mm) Black Anodized Aluminum Dome with Ferrofluid and Neodymium Magnet	
Woofer (Nominal)	2 x 5 1/4" (133mm) Textured Polypropylene Cone with Rubber Surround	
Crossover	2,500Hz, L4	
Design Type	Tuned Port Bass Reflex 2 1/2" (63.5mm) Rear Port	
CONSTRUCTION		
Cabinet Sleeve	5/8" (15mm) MDF	
Baffle Front	1" (25.4mm) MDF	
Baffle Rear	5/8" (15mm) MDF	
Grille Face	Black Steel Micro Perf with	
Frame	Magnetic Attachment	
SIZE (W x H x D)		(Gross Dimensions)
Net	6 3/4" x 32 1/2" x 9 3/8" * (170 x 825 x 243mm)	
WEIGHT		
Net	26.15lb (11.9kg)/each	
Shipping	62.7lb (28.5kg)/pr	
FINISH		Black Ash or Walnut in Vinyl Clad
FEATURES		Dual, 5-way Gold-plated Binding Posts Bi-wireable/Bi-ampable, Gold-plated Jumpers Adjustable Spikes and Rubber Levelers Rear Facing Port Black Round Feet

\*Non-metric measurements are approximate.

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