

Portable Speakers

SIENA TSP118B-AN

3000 Watt 18" Powered Subwoofer with
KLARK TEKNIK DSP Technology and
ULTRANET Networking

- Front loaded powered subwoofer for portable PA applications
- 3,000 Watt power featuring KLARK TEKNIK Class-D technology
- KLARK TEKNIK Digital Signal Processing for total system control
- ULTRANET digital audio networking connects to mixers and other sources
- 18" low frequency driver with inside/outside wound coil for high power handling
- Fully featured user interface with LCD display for ease of navigation
- PC remote control software downloadable at turbosound.com
- Low distortion bass reflex port design
- 18 mm (¾") birch plywood enclosure with hard wearing semi matt black paint finish
- Rugged powder coated perforated steel mesh grille
- 35 mm pole mount to support satellite speaker
- Durable handles for easy lifting and carrying
- Mains input on Neutrik powerCON* connectors
- 3-Year Warranty Program*
- Designed and engineered in the U.K.



The Siena 3,000 Watt TSP118B-AN is a powered 18" front loaded, bass reflex subwoofer enclosure that is optimally tuned for extended low frequency response. Designed to work individually without a controller, the TSP118B-AN provides very high output FOH performance and is ideally suited for a wide range of music and live sound reinforcement applications.



that is virtually distortion-free – for world-class low frequency performance that will stand the test of time.

Custom-Engineered Drivers

TURBOSOUND is recognised the world over for designing and building some of the most iconic loudspeakers and subwoofers. We take meticulous care and pride in maintaining that reputation by utilising only drivers designed specifically for each application – it's what sets us apart from the competition. The TSP118B-AN features a powerful 18" low frequency driver that utilises a special inside/outside wound voice coil for higher magnetic density, better heat dissipation, high power handling capacity, and improved efficiency. For its size and operating bandwidth, the TSP118B-AN delivers extremely high output

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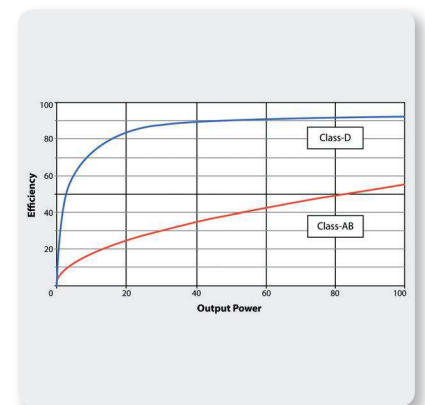
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Class-D – Massive Power, Perfect Sound

Equipped with a very efficient and lightweight **KLARK TEKNIK** Class-D power amplifier, the TSP118B-AN provides an impressive 3,000 Watts of output power in a highly portable and lightweight package. Class-D amplification makes all the difference, offering the ultimate in energy efficiency and eliminating the need for heavy power supplies and large heat sinks.



Onboard DSP

A high degree of control over the loudspeaker system's performance is managed by a sophisticated, but easy to use **KLARK TEKNIK** Digital Signal Processor (DSP), which provides dynamic EQ and transparent limiting for the utmost punch and definition at high output levels – and long-term reliability.

Intuitive User Interface

On the rear panel amplifier module, you will find a fully featured user interface consisting of an LCD display, with a single rotary encoder for intuitive access to level, EQ, and Feedback Control (FBI). A combination balanced XLR/jack input is provided, plus a balanced XLR output for connecting to powered satellite loudspeakers.



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ULTRANET Connectivity

The TSP118B-AN also features our proprietary ULTRANET technology, which allows the use of CAT5 cables for transmitting pristine multi-channel audio signals and other information between compatible digital devices – including mixers, I/O stage boxes, powered loudspeakers and personal monitoring systems. Simplified cable routing and ease of setup translate directly into significant time saved during installation. An onboard USB port provides access for remote control of the TSP118B-AN via a free PC computer software download from turbosound.com – as well as convenient DSP firmware updates.

Birch Plywood Construction

Finished in a highly durable semi matt black paint, the TSP118B-AN is constructed from 18 mm ($\frac{3}{4}$ ") birch plywood and includes: a 35 mm pole socket for satellite speaker mounting; integrated carry handles for convenient transport – and high impact interlocking corners for ground stacking stability. Mains power input is provided via a Neutrik powerCON* connector.



Touring-Grade Performance

Designed to provide exceptional performance for traveling musicians, or permanent installations such as houses of worship, banquet facilities, night clubs – and a host of other venues, the 3,000-Watt Siena TSP118B-AN puts touring-grade sound quality into a scalable loudspeaker system that is supremely portable and versatile.

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You Are Covered

We always strive to provide the best possible Customer Experience. Our products are made in our own [MUSIC Group](#) factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world. As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous [3-Year Warranty programme](#).



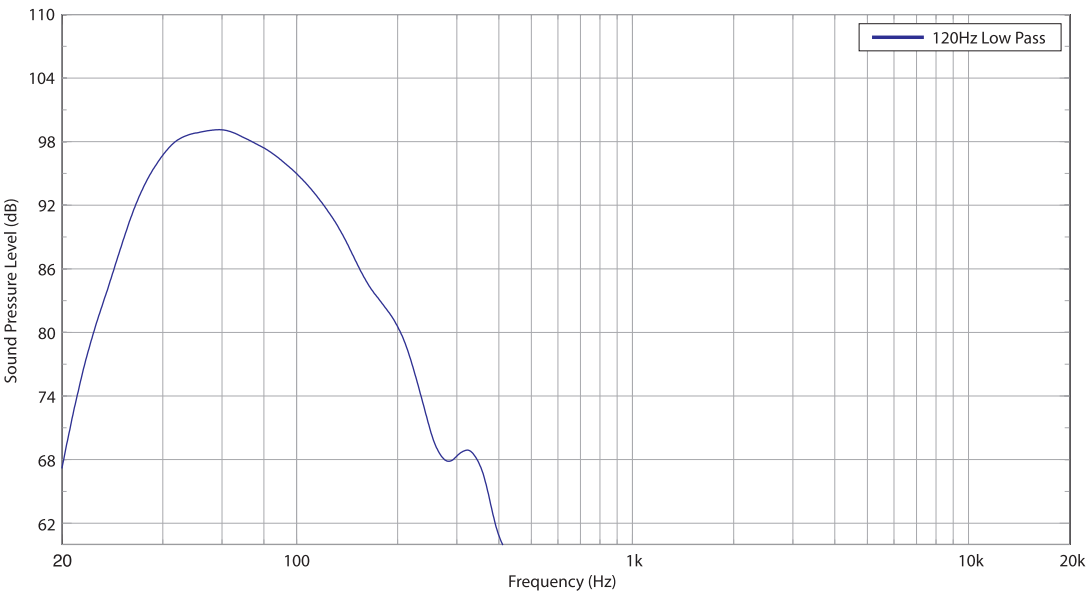
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Frequency Response Sensitivity 1 W / 1 m



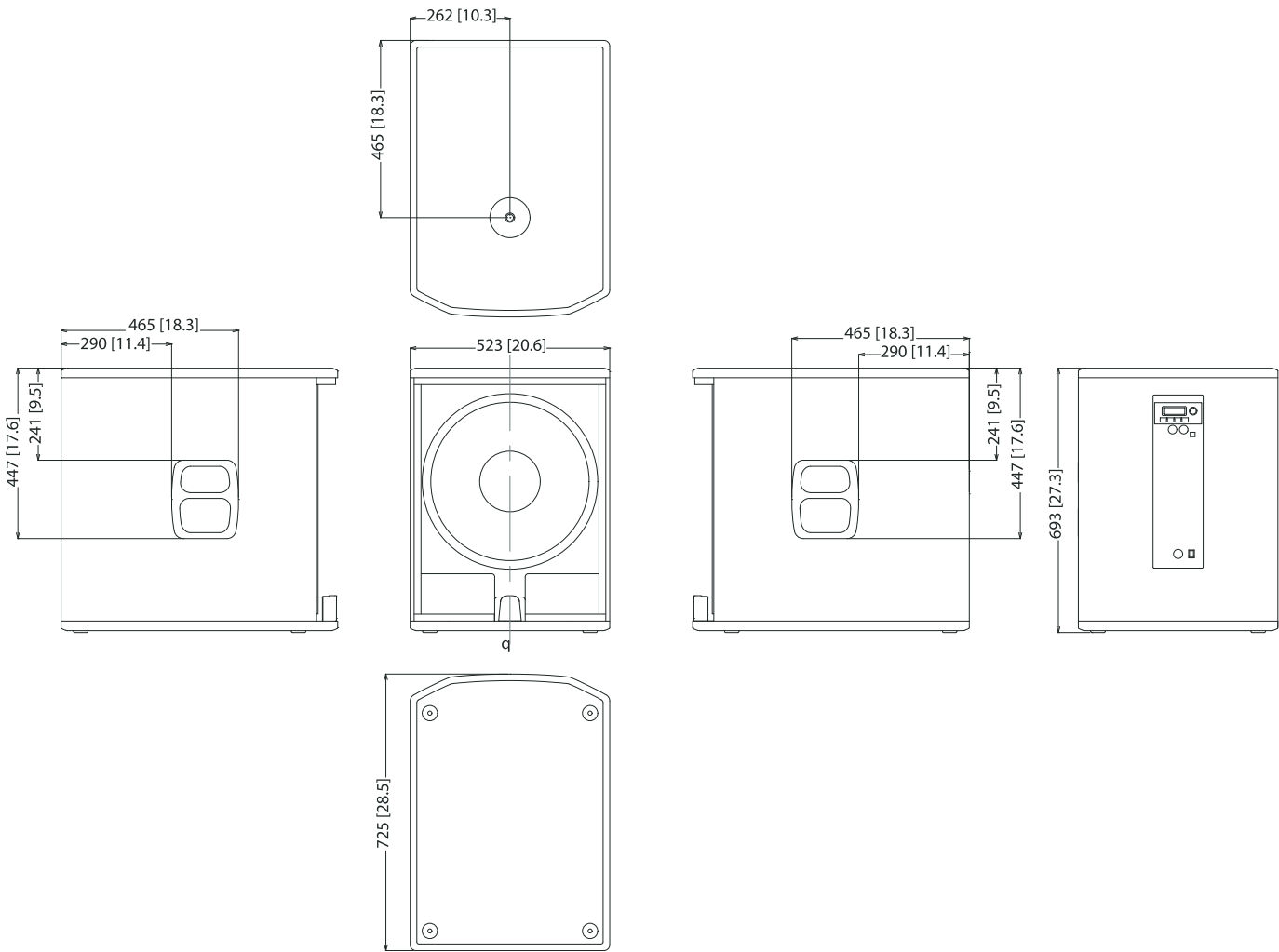
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Dimensions



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Technical Specifications

System

Frequency response	35 Hz – 90 Hz ± 3 dB 32 Hz – 100 Hz -10 dB
Nominal dispersion	Half Space
Maximum SPL	134 dB peak
Crossover type	Active
Transducers	1 x 18" (460 mm) LF driver
Limiter	Independent LF, peak and rms

Amplifier

Maximum output power*	3000 W
Type	Class-D
Protection	Short circuit, thermal

Connectors

Input/link	1 x Combo Jack/XLR, 1 x XLR
Sensitivity	+4 dBu or +14 dBu software switchable
Input impedance	40 k Ω balanced
Maximum input level	+22 dBu
Ultranet input/link	2 x RJ45
Mains Supply	Neutrik powerCON 20A†

Controls

DSP	Rotary push-encoder and level control Buttons for process, setup, exit, enter
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User DSP Functions

Factory EQ presets	Positioning, Sound mode FBQ
Display	LCD 128 x 32, blue, backlit
Delay	0 - 300 ms
Equalisation	High and low shelving EQ 2 x parametric EQ
Limiter	Zero attack input limiter
Presets	20 total presets, 19 user-definable
Crossover	High Pass L-R 24 dB/oct
Protection	Lock-out function for all settings

Ultranet Digital Network

Digital processing	
A/D conversion	24-bit, 44.1/48 kHz sample rate
Converter type	24-bit, delta-sigma
System	
Signal	16 channels
Latency	< 0.9 ms
Frequency response	20 Hz to 20 kHz (+0 / -3 dB)
Dynamic range	typical 92 dB
Cabling	
Cables	Shielded CAT5
Cable length	Max. 246 ft / 75 m recommended

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Power Supply	
Power consumption	180 W @ 1/8 max power
Voltage (fuses)	
USA / Canada	120 V~, 60 Hz (T 15 A H 250 V)
UK / Australia / Europe	220-240 V~, 50/60 Hz (T 10 A H 250 V)
Korea / China	220-240 V~, 50/60 Hz (T 10 A H 250 V)
Japan	100 V~, 50/60 Hz (T 15 A H 250 V)
Enclosure	
Dimensions (H x W x D)	693x 523 x 725 mm (27.3 x 20.6 x 28.5")
Net weight	46.3 kg (102.1 lbs)
Construction	18 mm (¾") birch plywood
Finish	Semi matt black paint
Grille	Powder coated perforated steel
Accessories	
TS-PC18B-2 protective cover for TSP118B	

*independent of limiters and driver protection circuits
†Only qualified personnel are allowed to modify the AC-Main cord and to adhere to all applicable national standards.

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