

Portable

SIENA

TSP122-AN

2500 Watt 2 Way 12" Powered Loudspeaker with KLARK TEKNIK DSP Technology and ULTRANET Networking

- 2 way full range loudspeaker for portable PA applications
- 2,500 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
- 12" low frequency driver with inside/outside wound coil for high power handling
- Titanium dome 1" compression driver with extended high frequency reproduction
- Fully featured user interface with LCD display for ease of navigation
- PC remote control software downloadable at turbosound.com
- Low distortion waveguide provides 70° H x 50° V dispersion
- 18 mm (3/4") birch plywood enclosure, finished in a black semi-matt textured paint
- Rugged powder coated perforated steel mesh grille
- Dual angle pole mount for accurate coverage control
- Multiple internal rigging points for install applications
- Mains input on Neutrik powerCON* connectors
- 10-Year Warranty Program*
- Designed and engineered in the U.K.



The 2-way full range TSP122-AN is a 2,500 Watt 12" powered loudspeaker system that is ideally suited for a wide range of portable and fixed installation speech and music sound reinforcement applications. Designed to work individually without a controller, the TSP122-AN provides optimal performance for FOH, sidefill and delay line loudspeakers, and is an exceptional choice for wedge monitoring applications. It also offers the flexibility to accommodate venue-specific requirements for install applications.



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 TSP122-AN loudspeaker features a 12" low frequency driver with an inside/outside wound low mass voice coil for improved transient response and an titanium dome 1" high frequency compression driver, which is mounted on a 70° horizontal by 50° vertical dispersion low distortion waveguide.

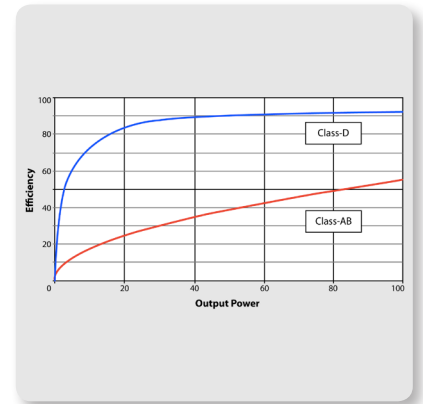
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Class-D – Massive Power, Perfect Sound

Equipped with a very efficient and lightweight **KLARK TEKNIK** Class-D power amplifier, the TSP122-AN provides an impressive 2,500 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 of the amplifier module, the user interface's LCD display and single rotary encoder provide intuitive access to: position compensation, user EQ control, subwoofer integration and signal routing features. In addition to the balanced XLR input, an XLR output is provided for daisy-chaining more active loudspeakers or for use with active subwoofers. An onboard USB port provides access for remote control of the TSP122-AN via a free PC computer software download from turbosound.com – as well as convenient DSP firmware updates.



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ULTRANET Connectivity

ULTRANET connectivity is provided by two locking etherCON* connectors. Up to 16 independent channels of 24-bit digital audio and control data are transmitted via a single CAT5 cable 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.

Birch Plywood Construction

Finished in a highly durable semi matt black paint, the cabinet is constructed from 18 mm (¾") birch plywood – and includes a rugged powder coated perforated steel mesh grille backed with reticulated foam. Multiple threaded rigging points are provided for suspension in any orientation, a dual-angle pole mount socket for use with 35 mm poles/speaker stands to optimise audience coverage, and durable handles for easy transport. The wedge shape design also enables the TSP122-AN to be utilised in low profile stage monitor applications where improved audience line of sight is of paramount importance. 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 2,500-Watt Siena TSP122-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 Tribe](#) 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 [Warranty program](#).

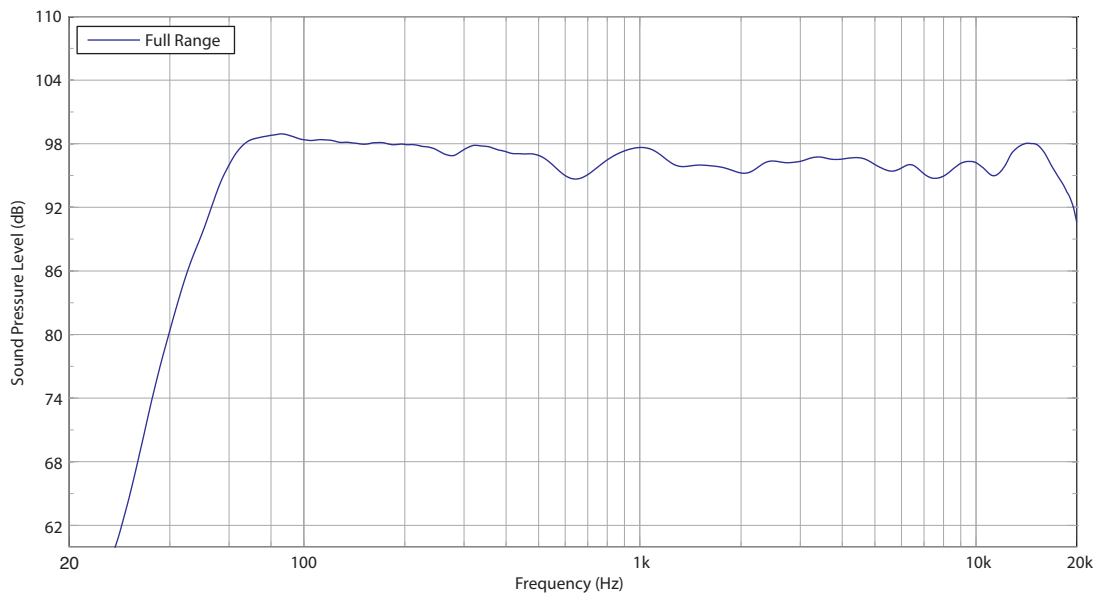


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Frequency Response Sensitivity 1 W / 1 m

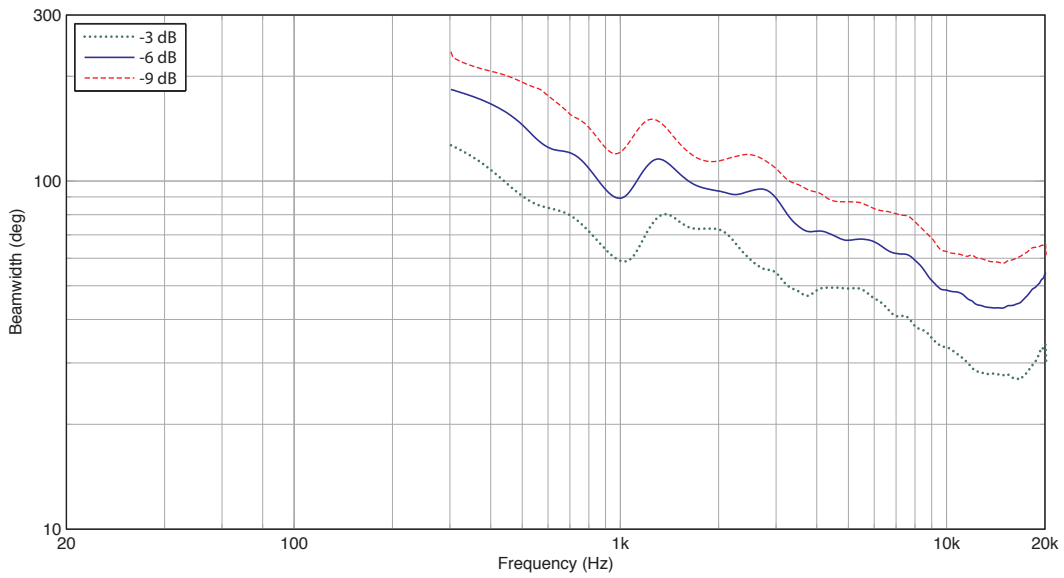


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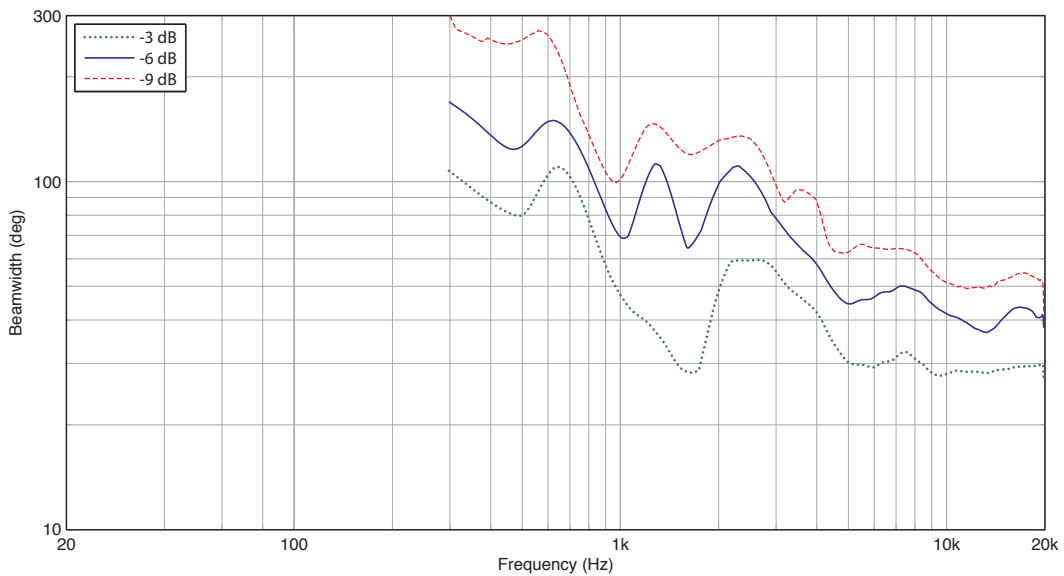
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Horizontal Beamwidth



Vertical Beamwidth

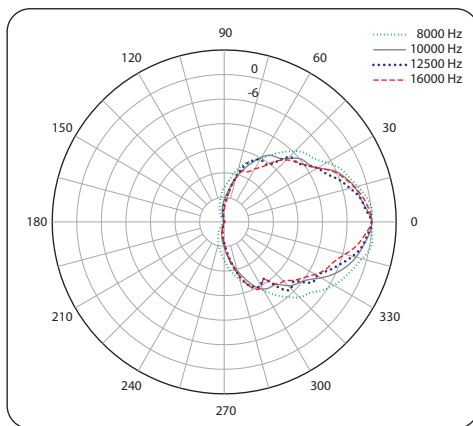
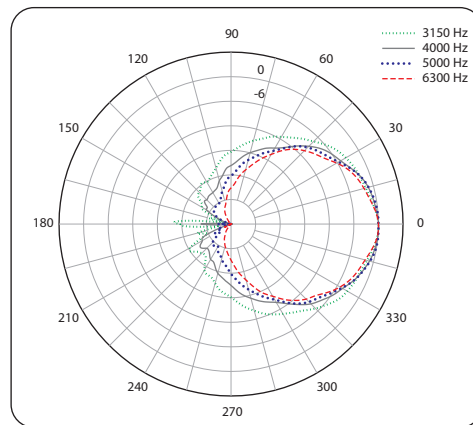
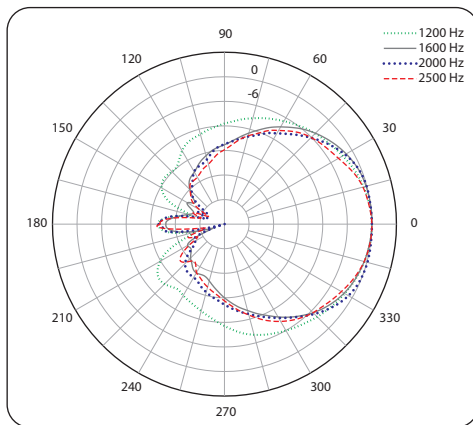
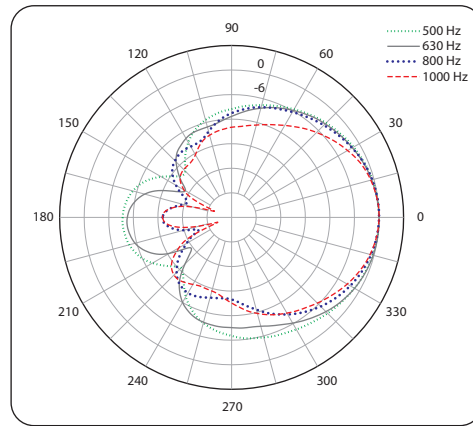
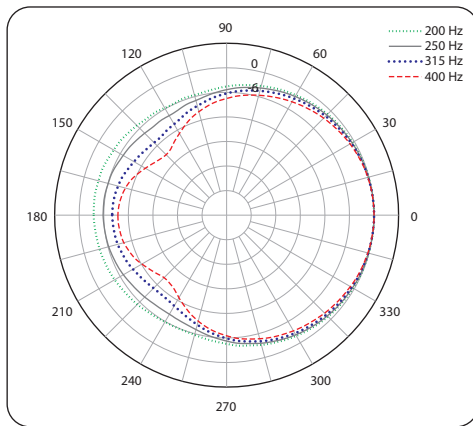


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Horizontal Polar Plots

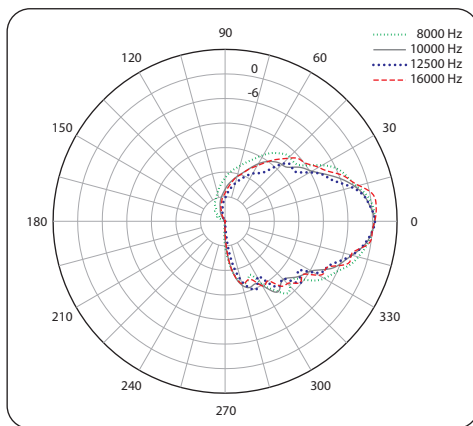
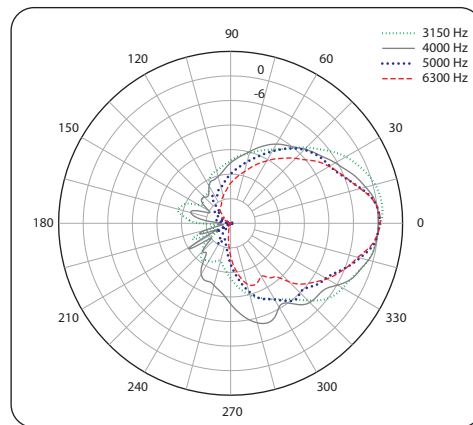
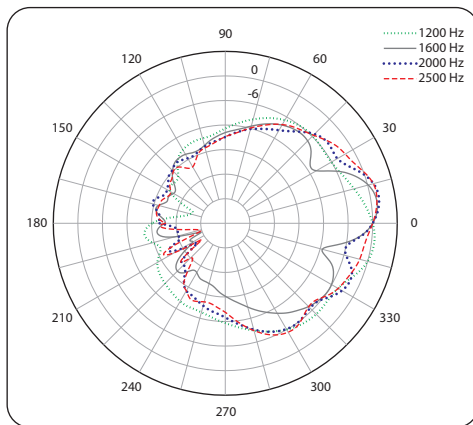
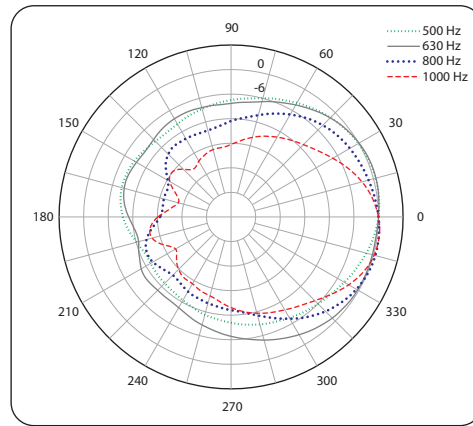
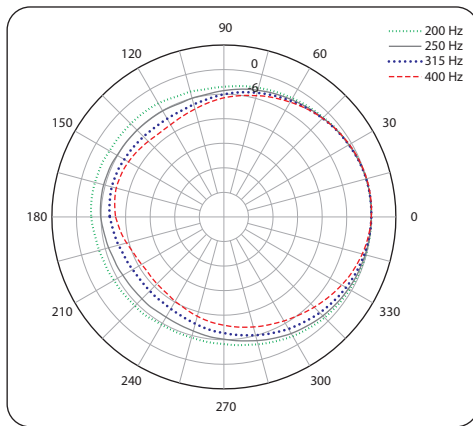


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Vertical Polar Plots

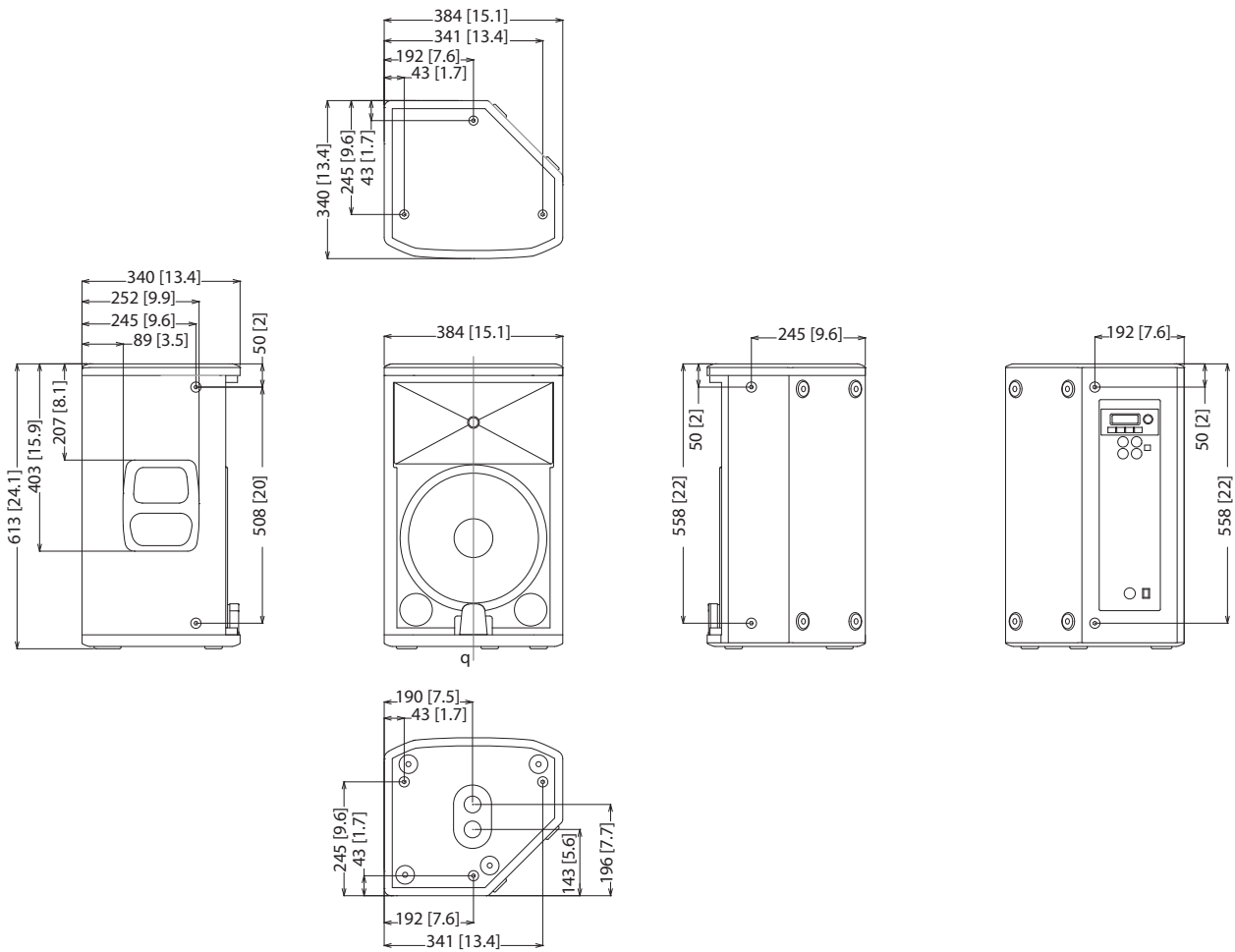


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Dimensions



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Technical Specifications

System

Frequency response	50 Hz – 18 kHz \pm 3 dB 43 Hz – 20 kHz -10 dB
Nominal dispersion	70° H x 50° V @ -6 dB Points
Maximum SPL	133 dB peak
Crossover type	Active
Transducers	1 x 12" (316 mm) LF driver 1 x 1" (25.4 mm) HF compression driver
Limiter	Independent HF, LF, peak and rms

Amplifier

Maximum output power*	2500 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	90 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 HWD	613 x 384 x 340 mm (24.1 x 15.1 x 13.4")
Net weight	21.5 kg (61.2 lbs)
Construction	18 mm (¾") birch plywood
Finish	Semi matt black paint
Grille	Powder coated perforated steel
Flying hardware	M10 x 6 points

Accessories

TS-PC12-2 protective cover for TSP122

*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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