

## Install Speakers

# ATHENS TCS218B-AN

6000 Watt Dual 18" Front Loaded Subwoofer with KLARK TEKNIK DSP Technology and ULTRANET Networking



- Dual front loaded powered subwoofer for portable PA applications
- 6,000 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
- Double suspension 18" low frequency drivers with inside/outside wound coils
- Fully featured user interface with LCD display for ease of navigation
- PC remote control software downloadable at [turbosound.com](http://turbosound.com)
- Low distortion bass reflex port design
- 18 mm (¾") birch plywood enclosure with hard wearing semi matt black paint finish
- Architecturally styled powder coated perforated steel mesh grille
- Multiple internal rigging points allow secure mounting for installation
- Mains input on Neutrik powerCON\* connector
- 3-Year Warranty Program\*
- Designed and engineered in England

The TCS218B-AN is a 6,000 Watt dual 18" front loaded powered subwoofer with digital networking ideally suited for a wide range of fixed installation and portable PA applications. Designed to work individually without a controller or additional amplification, the TCS218B-AN provides optimal low frequency reinforcement when used in conjunction with all TCS Series loudspeakers.



A bass reflex port design enclosure, with two high power, double suspension 18" low frequency drivers that utilize a specialised voice coil wound on both the inside and outside of the coil former for higher magnetic density, better heat dissipation, higher power handling capacity, and improved efficiency.

Output power for the TCS218B-AN is provided by means of an efficient and lightweight KLARK TEKNIK 6,000-Watt Class-D power amplifier. A sophisticated, but easy to use KLARK TEKNIK Digital Signal Processor (DSP) provides dynamic EQ for impressive full range response at low volume levels, and transparent limiting for clarity at high output levels – and long-term reliability.

On the rear panel of the amplifier module, the user interface's LCD display and single rotary encoder provides intuitive access to array, position and user EQ, control, and signal routing features. Input is via a combination balanced XLR/jack input, and an XLR output is provided for daisy-chaining more active loudspeakers or for use with another powered subwoofer.

\*All third-party trademarks are the property of their respective owners. Their use neither constitutes a claim of the trademark nor affiliation of the trademark owners with MUSIC Group. Product names are mentioned solely as a reference for compatibility, effects and/or components. Warranty details can be found at [music-group.com](http://music-group.com).

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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.

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. Internal M10 threaded rigging points are provided and mains power input is provided via a Neutrik powerCON\* connector.



## 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.

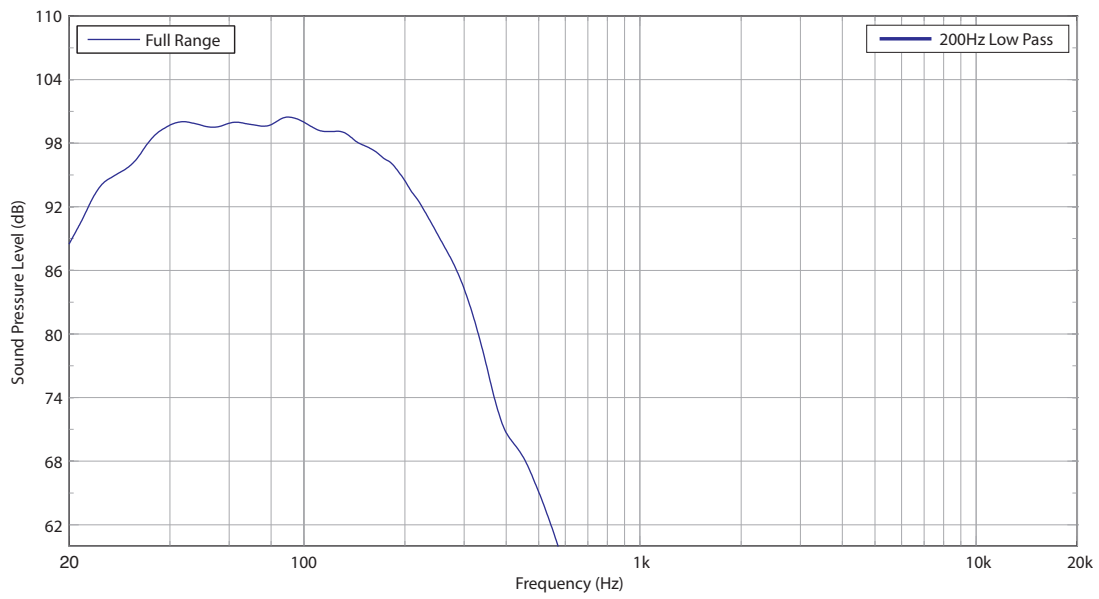
As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous [3-Year Warranty program](#).

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## Frequency Response Sensitivity 1 W / 1 m

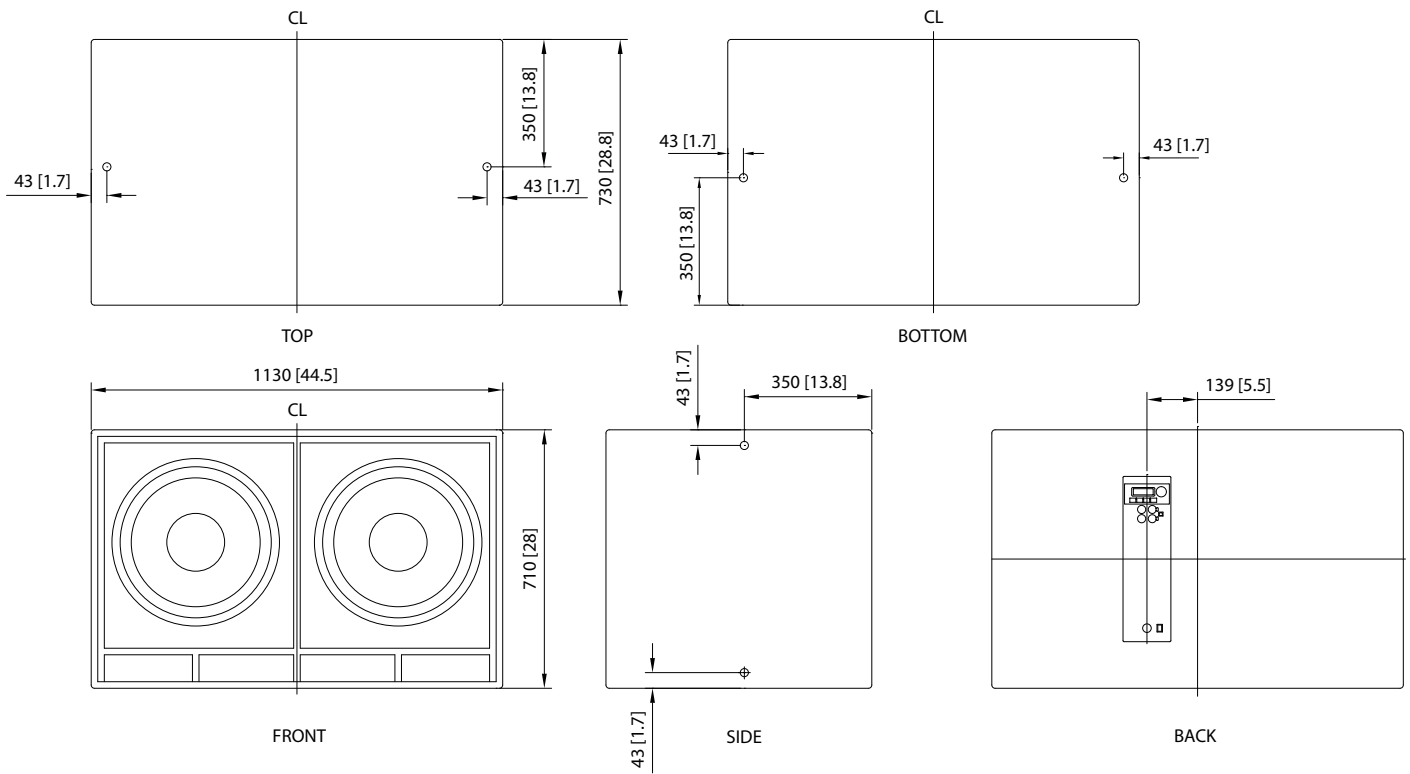


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## Dimensions



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## Technical Specifications

### System

Frequency response	33 Hz – 200 Hz $\pm 3$ dB 27 Hz – 200 kHz -10 dB
Nominal dispersion	Half Space
Maximum SPL	141 dB peak
Crossover type	Active
Transducers	2 x 18" (460 mm) LF driver
Limiter	Peak and rms

### Amplifier

Maximum output power*	6000 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 $\Omega$ 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
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	Low 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

<b>Power consumption</b>	350 W @ 1/8 max power
<b>Voltage (fuses)</b>	
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

<b>Dimensions (H x W x D)</b>	710 x 1130 x 730 mm (28 x 44.5 x 28.8")
<b>Net weight</b>	95.5 kg (210.1 lbs)
<b>Construction</b>	18 mm (5/8") Birch plywood
<b>Finish</b>	Semi matt black paint
<b>Grille</b>	Powder Coated Perforated Steel
<b>Flying hardware</b>	M10 x 8

\*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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## Architecture & Engineering Specifications

The loudspeaker shall be of the powered subwoofer type, consisting of two 18" (460 mm) LF drivers. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with swept sine wave input, shall be flat within  $\pm 3$  dB from 33 Hz to 200 Hz and within -10 dB from 27 Hz to 200 Hz. Nominal dispersion shall be "half space." Maximum amplifier output power shall be 6,000 Watts peak, independent of limiters and driver protection circuits. Maximum SPL (peak), measured at 1 metre with music program, shall be 141 dB. Dimensions: 710 mm high x 1130 mm wide x 730 mm deep (28" x 44.5" x 28.8"). Net weight: 95.5 kg (210.1 lbs). The loudspeaker system shall be the **TURBOSOUND** TCS218B-AN. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verifies that the above combined performance / size specifications are equalled or exceeded.



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For service, support or more information contact the TURBOSOUND location nearest you:

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