

## TCS SERIES ENGINEERING INFORMATION

**The TCS-B218 is a low frequency loudspeaker enclosure available in passive or digitally self-powered formats and designed for use in a wide range of fixed installations.**

It consists of two 18" reflex-loaded low frequency drivers in an optimally tuned rectangular enclosure.

The cabinet is constructed from 18mm (3/4") birch plywood, screwed and glued together for maximum rigidity, with a powder-coated perforated steel mesh grille backed with reticulated foam. Multiple rigging points are provided on the top, bottom, sides and rear of the cabinet to enable it to be suspended in permanent installations using M10 shoulder eyebolts.

A Neutrik® Speakon NL4 speaker connector is located on the rear panel, providing input connections, while a 4-way barrier strip provides input and loop-through connections to additional TCS series cabinets.



The TCS-B218 is finished as standard in durable black or white semi-matt textured paint; custom colour options are also available for decor matching. An IP54 weather-resistant version is optionally available with stainless steel grille, weatherproof paint finish and captive cable gland, enabling use outdoors and in humid conditions.

**The TCS-B218DP is a 2500 watt digitally self-powered option** featuring a new generation of innovative Class D power amplifier modules, utilising revolutionary 96kHz DSP technology to give operating efficiency in excess of 90%. The fully integrated amplifier and control electronics module incorporates high performance limiters set to optimise the continuous power and excursion thresholds, and is fully networkable to allow remote control and monitoring of critical performance parameters. The switch mode power supply is auto-sensing over a range from 100 volts to 240 volts.

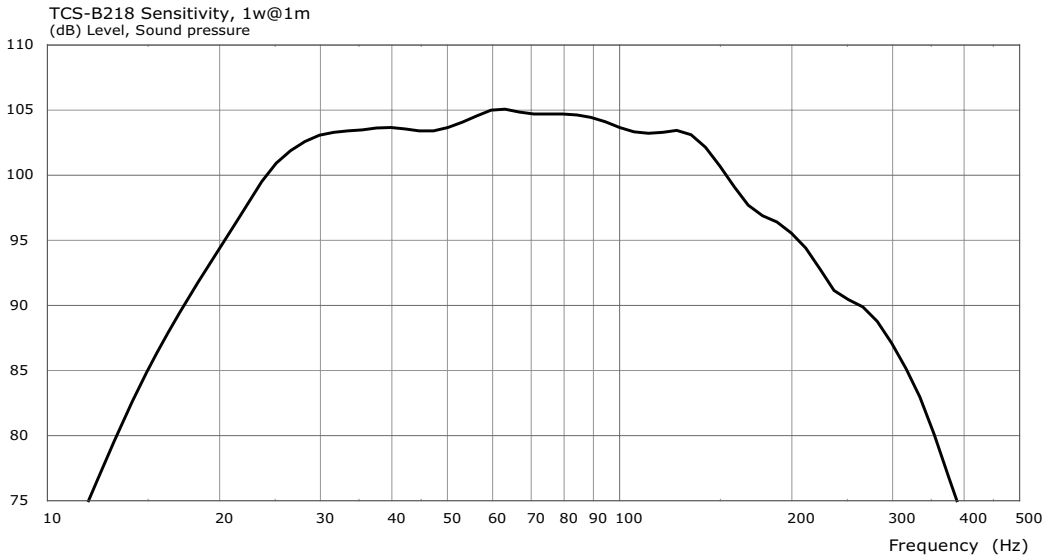
### FEATURES

- High power handling**
- Multiple rigging points**
- Custom colour option**
- IP54 weather-resist option**

### APPLICATIONS

- Fixed installations**
- Pubs, clubs and bars**
- Music venues**
- Houses of Worship**
- Stadia and arenas**
- Public address**
- Voice alarm**

<b>DIMENSIONS (HxWxD)</b>	710mm x 1130mm x 730mm (28" x 44.5" x 28.7")	
<b>NET WEIGHT</b>	TCS-B218: 104kg (228.8lbs); TCS-B218DP: 106kg (233.2lbs)	
<b>COMPONENTS</b>	2 x 18" (457mm) LF drivers	
<b>FREQUENCY RESPONSE</b>	25Hz - 150Hz ±3dB; 20Hz - 214Hz ±10dB	
<b>POWER HANDLING</b>	1200 watts r.m.s., 2400 watts program	
<b>SENSITIVITY</b>	104dB, 1 watt @ 1 metre (measured in half space)	
<b>MAXIMUM SPL</b>	136dB continuous, 142dB peak	
<b>NOMINAL IMPEDANCE</b>	4 ohms	
<b>CONSTRUCTION</b>	18mm (3/4") birch plywood. Finished in black semi-matt textured paint	
<b>GRILLE</b>	Powder-coated perforated steel with foam backing	
<b>CONNECTORS</b>	(1) Neutrik® Speakon NL4MP, wired pin1+: positive, pin 1-: negative, pins 2+ and 2- N/C (1) 4-way barrier strip connector	
<b>AMPLIFIER (TCS-B218DP)</b>	<b>TYPE:</b>	Class D
	<b>CONNECTORS:</b>	1 x female XLR (input), 1 x male XLR (link) 2 x RJ45 network, 1 x Powercon mains
	<b>INDICATORS:</b>	Power (blue), signal (green), limit (red)
	<b>POWER OUTPUT:</b>	2500 watts continuous @ 4 ohms (1kHz, 0.01% THD)
	<b>MAX INPUT:</b>	+10dB for rated output
	<b>BANDWIDTH:</b>	20Hz - 20kHz ±0.5dB
	<b>POWER REQUIREMENTS:</b>	100V to 240V AC @ 50/60Hz, auto switching
<b>OPTIONS</b>	Optional finishes: white and custom colours. IP54 weather-resistance: stainless steel grille, black or white weatherproof paint finish, captive cable with cable gland (non-powered only)	
<b>FLYING HARDWARE</b>	(8) M10 internal rigging points for M10 eyebolts	
<b>SPARES AND ACCESSORIES</b>	LS1814	LS-1814 15" (381mm) LF loudspeaker
	05B5155	RC-1529 Recone kit
	16F916	TCS-218DP AMP Amplifier module
	07B392	EB-10/18 M10x18mm eyebolt



Shown with Turbosound LMS-D2X processor running HPF 24dB BW 20Hz LPF 24dB LR 125Hz. Measured 1w/1m half space 1/3 Octave Smoothed.

**FREQUENCY  
RESPONSE**

**NOTES ON  
MEASUREMENT  
CONDITIONS**

**ARCHITECTURAL  
 & ENGINEER'S  
 SPECIFICATIONS**

The loudspeaker shall be of the reflex-loaded low frequency type or digitally self-powered type consisting of two 18" (457mm) 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  $\pm 3\text{dB}$  from 25Hz - 150Hz; and within  $\pm 10\text{dB}$  from 20Hz - 214Hz. Nominal impedance shall be 4 ohms. Power handling shall be 1200 watts r.m.s., 2400 watts program. Sensitivity, measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth, shall be 104dB. Maximum SPL (peak) measured with music program at stated amplifier input shall be 142dB. Dimensions: 710mm x 1130mm x 730mm (28" x 44.5" x 28.7"). Weight: 104kg (228.8lbs) [106kg (233.2lbs) TCS-B218DP]. The loudspeaker system shall be the Turbosound TCS-B218 [TCS-B218DP]. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

**DIMENSIONS**

