

# Appendix C: TH-18s Specifications

## Acoustic Performance

Frequency Range (-10 dB):	35 Hz – 150 Hz
Frequency Response (-3 dB):	50 Hz – 115 Hz
Max peak SPL (calculated) <sup>1</sup> :	129 dB
Max peak SPL (measured) <sup>2</sup> :	124 dB

## Transducer

Diameter:	18 in / 457 mm
Voice coil diameter:	3 in / 76 mm
Diaphragm material:	Paper
Magnet material:	Ferrite

## Power Amplifier

Rated Power:	500 watts rms 1000 watts peak
THD:	<0.1%
Design:	Class D
Cooling:	Convection

## Input/Output

Input Type:	Female XLR Balanced differential (stereo left/right)
Input Impedance:	20 kΩ balanced
Full Range Output:	Male XLR Balanced (parallel with input)
High Pass Output:	Male XLR Balanced
Level Control:	-6 dB to +6 dB

## Electronic Crossover

Crossover Type:	24 dB/oct. Linkwitz-Riley
Crossover Frequency:	125 Hz

## Protection Features

Over-excursion Protection:	40 Hz 24 dB/oct. Butterworth High Pass Filter
Thermal Protection:	Amplifier mute, auto reset
Driver Protection:	Peak/RMS Limiter
Display LEDs:	Thermal, OL, Signal, Power

## AC Power Requirements

US:	100-120 VAC, 50-60 Hz Fuse: T 6.3A H 250V
Europe:	220-240 VAC, 50-60 Hz Fuse: T 3.15A H 250V
Power Consumption:	160 watts @ 1/4 power
AC Connector:	3-pin IEC 250 VAC, 15 A male

## Construction Features

Basic Design:	Trapezoidal
Material:	Void-free plywood
Finish:	Textured black catalyzed polyurethane paint
Handles:	One on each side
Grille:	Perforated metal

## Physical Properties

Height:	24.1 in / 612 mm
Front Width:	20.2 in / 513 mm
Rear Width:	15.1 in / 383 mm
Depth:	25.3 in / 643 mm
Weight:	73 lb / 33.1 kg

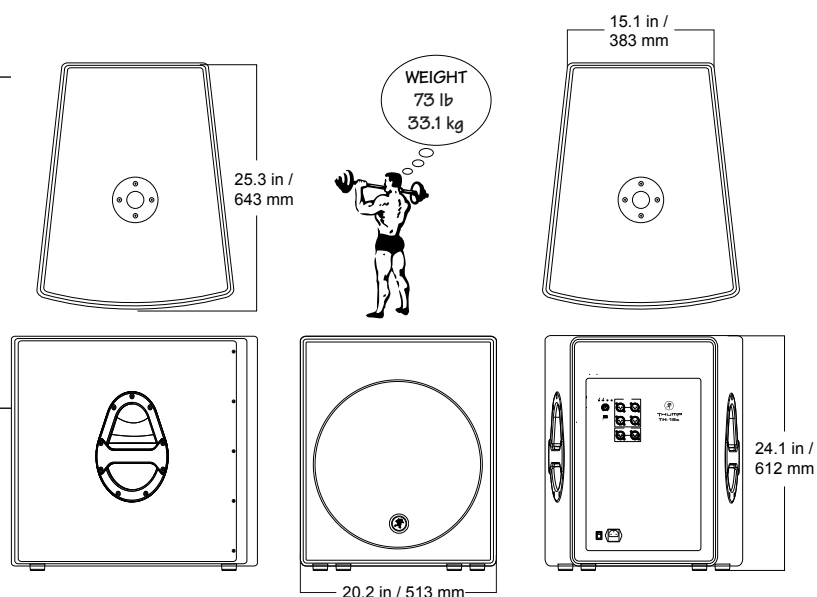
## Mounting Method:

The TH-18s subwoofer is designed to sit on the floor or stage. It is NOT designed to be pole-mounted or suspended. The cabinet has no rigging points and is not suitable for rigging. Never attempt to suspend the TH-18s by its handles.

LOUD Technologies Inc. is always striving to improve our products by incorporating new and improved materials, components, and manufacturing methods. Therefore, we reserve the right to change these specifications at any time without notice.

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<sup>1</sup> Calculated from peak driver sensitivity and amplifier power, half space.

<sup>2</sup> Measured with swept sine at 1 W within operating range, scaled for max power, half space.