VERTCON SERIES



DATASHEET

S118D Ultra High Power Subwoofer



Dimensions 562mm x 630mm x 800mm (HxWxD) **Dimensions with the** 562mm x 695mm x 800mm (HxWxD)

connection hardware

Weight 62 kg Weight with the 78 kg

connection hardware

Enclosure MadeFibra®

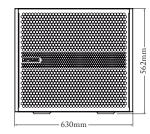
Finish Textured black polyester **Protective Grille** Hex-stamped steel

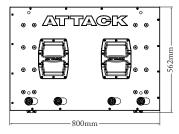
Black textured paint coating

Audio connection AC connection

Female XLR and Male XLR loop thru

IP65-3P with Looping Output NBR14.136 - 20A Output





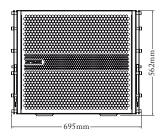
The S118D is a self powered high performance subwoofer. Member of the Vertcon family, it was designed for large areas with high performance and exceptional coverage. The extended headroom, continuous operation with high pressure levels, and high transient information capability with minimal distortion make the S118D the ideal choice for low-frequency reproduction in small and medium-sized systems.

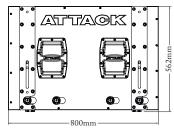
It was designed to achieve the highest efficiency of each part of the system, resulting in a subwoofer capable of reproducing extreme low frequencies without much effort. The transducer, amplifiers and processing were designed as a single set to optimize performance and achieve the extreme power and SPL. Flexibility and practicality in the assembly of the system are guaranteed by the use of materials of high safety standard and mechanical resistance. It has a optional hardware connection for Flown mode mounting, built in steel and laser cut ensuring maximum precision in the fittings and the possibility of stacking up to 12 units in a single Bumper.

The frequency range from 25 Hz to 150 Hz complements other Attack products, such as the Vertcon L208D and L212D models.

The S118D subwoofer features an efficiently tuned enclosure with an







18" speaker designed for great excursion capability. The speaker has a 4-inch voice coil and power capacity of 1200W AES.

Being a self powered system, the S118D incorporates a high-power class-D amplifier, with a dedicated limiter that protects and extends transducer life at very high power levels and prevents non-linear operating situations. The amplification and processing system is mounted in an individual unit that allows for an extremely easy in-field exchange. The amplifier and processor are powered by a switching mode supply that boasts a PFC circuit capable of providing constant power from 100 to 240

The enclosure is built with a special humidity resistant fiberboard "Madefibra®" coated with highly robust polyester painting that ensures great durability. It has a hex-stamped steel protective grille, coated with electrostatic paint. In the bottom has plastic feet that allow to lock one box in the other when stacked.

Options for the S118D include white polyester paint (custom-made) and the EMV-S118D which is a structure for stacking and transporting multiple units.

KEY FEATURES

- Possibility of stacking.
- · Possibility of suspended assembly.
- Extremely low distortion and high sound clarity.
- Extreme peak power with excellent transient reproduction.
- Possibility of transporting multiple units using the accessory EMV-S118D.

APPLICATIONS

- Shows and small and medium-sized concert halls.
- Sports centers, theaters, churches and clubs.
- · Movie theaters.



S118D Ultra High Power Subwoofer

Acoustical

Operating frequency range¹ 25 Hz - 150 Hz
Frequency response² 28 Hz - 120 Hz -6 dB
Phase response 30 Hz - 100 Hz ±30°

Maximum linear average SPL3

Free field 113 dB (Z) @ 1m Ground plane 119 dB (Z) @ 1m

Maximum linear peak SPL⁴

 $\begin{array}{ccc} Free \ field & 125 \ dB \ (Z) \ @ \ 1m \\ Ground \ plane & 131 \ dB \ (Z) \ @ \ 1m \end{array}$

Coverage

360° (One unit). Varies according to the quantity and configuration

Transducers

18" Speaker/Nominal impedance 8 Ω / Voice coil diameter 4"

Audio input

Type Differential, electronically balanced Connectors Female XLR and Male XLR loop thru Input impedance $10 \text{ k}\Omega$ Unbal and $20 \text{ k}\Omega$ Bal

Connection Pin 2: signal +/Pin 3: signal -/Pin 1: ground CMRR >50 dB, typically 70 dB (50 Hz - 500 Hz)

Nominal input sensitivity +4 dBu (1.23 V rms - 1.74 Vp) constant is typically the

beginning of signal limitation with noise or music

Maximum input level +20 dBu

Amplifier

Type Class D THD - IMD <0.1%

AC Power

Power supply type PFC pre-regulator and Half-Bridge converter

Connectors IP65-3P with Looping Output, NBR14.136-20A Output

Operating range 100-240 V AC rms, maximum 275 V AC rms, minimum starting

voltage 100 V AC rms

(mA rms)

Maximum continuous current 4.3A@100 V AC / 3.5A@127 V AC / 1.9A@220 V AC consumption for long periods

 $(A rms)(>10seg)^5$

General information

Indicators Led Power/Led Signal/Led Limiter/Led CSD

Protections Overvoltage, undervoltage, short-circuit, temperature, DC,

limiter, audio starting fader

Ventilation Micro ultra silent fan with speed control as a function of

the temperature

NOTES

- ¹ Recommended maximum operating frequency response. The frequency response depends on the acoustics conditions of the environment.
- ² Measured with 1/3 octave frequency resolution in semi-anechoic chamber at four meters of distance. Frequency response with maximum variation of ±3dB.
- ³ Measured with pink noise (FC=12dB), linear average SPL maintained for at least one hour, microphone on the axis.

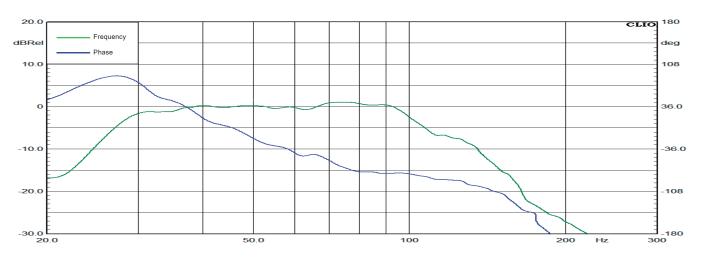
 The average SPL value (measured

The average SPL value (measured with Z-weighted curve) in free field is used in the GLL file for use in prediction in the Ease Focus and Ease softwares.

- ⁴ Measured with pink noise (FC=12dB), linear peak SPL maintained for at least one hour, microphone on the axis.
- ⁵ The AC power cable must have a gauge compatible with the current transmission capacity required by the subwoofer in continuous current consumption regime, otherwise it will not deliver the specified power to the transducers. Maximum current value measured with pink noise (FC=12dB).

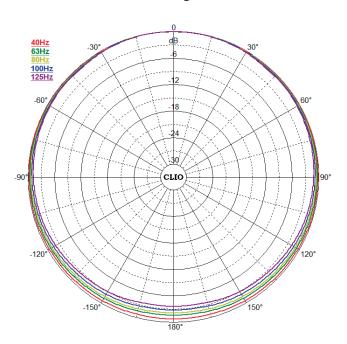
ACOUSTIC CHARACTERISTICS

Frequency and phase response



Measured in semi-anechoic chamber, on axis and 1/3 octave resolution

Polar diagram



Measured in semi-anechoic chamber, on axis and 1/3 octave resolution



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