



Description

The SSE 118 Sub incorporates the Extra-High Power Low Rider™ 18" woofer and a new compact cabinet design. The SSE 118 Sub is a direct radiator subwoofer designed specifically for the Pro-Audio permanent install contractor/dealer.

The Low Rider 18" driver is a milestone in high-power subwoofer design. An incredible 3,200 watt program rating and extra-long cone excursion add up to amazing new levels of clean, deep bass. This makes the SSE 118 Sub a superior choice for the bottom end of any high powered sound system, primarily designed for large professional installs.

The SSE 118 Sub is unusually compact for its power handling, SPL output, distortion performance and bass extension. This is made possible by special characteristics designed into the Low Rider woofer.

The SSE 118 Sub is well braced and stiff, as internal pressures produced by the Low Rider woofer can be very high. The vent design integrated into the enclosure has a large area and long path length allow for a large volume of air to move with very low resistance. This is important due to the huge air flow volumes that the Low Rider woofer can produce.

The SSE 118 Sub is constructed of premium 18 mm Baltic birch plywood and is covered with a textured black paint. A 16-gauge powder-coated perforated metal grille covers the front of the system to protect the speakers from external damage.

Input connection to the system is made via a 4-pin Neutrik® jack in parallel with a two position screw barrier terminal strip, providing for connection flexibility while maintaining superior signal integrity.

Despite its compact dimensions for a single 18" bass enclosure, this system can put out some extremely serious sound levels, and take 1,600 watts program of clean amplifier power, resulting in large area coverage with excellent punch and high reliability.

Features:

- Peavey Low Rider 18" woofer
- 1600 watts of Program Power
- Extreme Low Frequency Response down to 35Hz
- Neutrik® Speakon® professional input connectors
- Versatile suspension provisions
- Very Compact Design
- Black textured painted finish
- Perforated metal grille with poly cloth covering

Applications:

- Stadiums
- Arenas
- Multi-Purpose Facilities
- Cruise Ships
- Theme Parks
- Houses of Worship
- Live Music Venues
- Hotels Meeting Rooms
- Conference Facilities
- Theaters
- Auditoriums
- Civic Centers
- Judicial Facilities
- Gymnasiums
- Performing Arts Centers





SANCTUARY SERIES™

Frequency response, 1 meter on-axis, swept-sine in anechoic environment:
48 Hz – 500 Hz (± 3 dB)

Usable low frequency limit (-10 dB point point):
35 Hz

Power Handling:
800 W continuous
1600 W program
3,200 W peak

Sound Pressure Level, 1 watt, 1 meter (in anechoic environment):
97 dB SPL, (2.83 V input)

Maximum Sound Pressure Level (1 meter):
124 dB SPL continuous
130 dB SPL peak

Transducer Complement:
1 x 18 in. Individually vented
1808-8 HPS Low Rider 18" Sub

Box Tuning Frequency:
36 Hz

Harmonic Distortion:

1% rated power	
2nd Harmonic:	
100 Hz:	0.85 %
500 Hz:	0.97 %
3rd Harmonic:	
100 Hz:	0.32 %
500 Hz:	0.77 %
10% rated power	
2nd Harmonic:	
100 Hz:	3.5 %
500 Hz:	3.2 %
3rd Harmonic:	
100 Hz:	2.2 %
500 Hz:	0.95 %

Recommended Maximum Active Crossover Frequency Region and Minimum Slope:

150 Hz at 18 dB/octave

Recommended Active Crossover Frequency Region and Slope:

100 Hz at 24 dB/octave LR

Impedance (Z):

Nominal:	8.0 ohms
Minimum:	6.4 ohms

Input Connections:

1x Neutrik Speakon NL4MD & 1x 4-position barrier strip

Enclosure Materials and Finish:

18 mm Baltic birch plywood finished in black textured paint

Mounting Provisions:

Twelve 3/8"-16 threaded mounting suspension points (3 each top & bottom and 2 each sides & back)

Overall Dimensions (H x W x D)

Front:

33.75 in. x 22.37 in. x 21.75 in.
857 mm x 568 mm x 552 mm

Rear:

33.75 in. x 11.99 in. x 21.75 in.
857 mm x 50.5 mm x 552 mm

Net Weight

92 lbs. 41.8 kg

Frequency Response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the SSE™ 118 Sub is measured at a distance of 1-meter using a 1 watt (into the nominal impedance) swept-sine input signal. As shown in figure 1, the selected driver in the SSE 118 Sub combine to give a smooth frequency response from 48 Hz to 500 Hz.

Power Handling

There are many different approaches to power handling ratings. Peavey rates this loudspeaker system's power handling using a modified form of the AES Standard 2-1984. Using audio band 40 Hz to 400 Hz pink noise with peaks of four times the RMS level, this strenuous test signal assures the user that every portion of this system can withstand today's high technology music. This rating is contingent upon having a minimum of 3 dB of amplifier headroom available.

Harmonic Distortion

Second and third harmonic distortions vs. frequency are plotted in figures 3 & 4 for two power levels. Ten percent (10%) of rated input power and either one percent (1%) of rated input power or one watt, whichever is greater. Distortion is read from the graph as the difference between the fundamental signal (frequency response) and the desired harmonic. As an example, a distortion curve that is down 40 dB from the fundamental is equivalent to 1% distortion.

Mounting

Caution: Before attempting to suspend this speaker, consult a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. Other enclosures may be suspended below one SSE 118 Sub. However, the combined weight of additional enclosures and all cables, clamps and other hardware must not exceed **ZZZ** pounds. The SSE 118 Sub weighs 92 pounds and the maximum combined weight suspended from the uppermost mounting bracket assemblies must not exceed 400 pounds. Maximum enclosure angle 45°. Use only the correct mating hardware. All associated rigging is the responsibility of others.

Architectural and Engineering Specifications

The loudspeaker system shall have an operating bandwidth of 48 Hz – 500 Hz. The nominal output level shall be 96 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 8 ohms. The maximum continuous power handling shall be 800 watts, maximum program power of 1600 watts and a peak power input of at least 3200 watts, with a minimum amplifier headroom of 3 dB. The outside dimensions shall be 33.75 inches high by 22.37 inches wide by 21.75 inches deep. The weight shall be 92 pounds. The loudspeaker system shall be a model SSE 118 Sub.

3 + 2 YEAR LIMITED WARRANTY

NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi, 39301-2898.

Needed:

Figure 1 Frequency response

Figure 2 Impedance

Figure 3 Harmonic Distortion (10% power)

Figure 4 Harmonic Distortion (1% power or 1 watt)

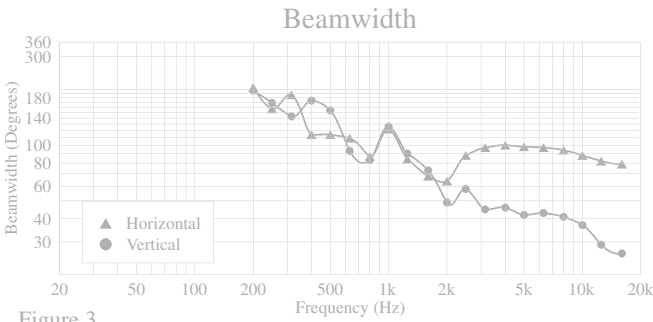
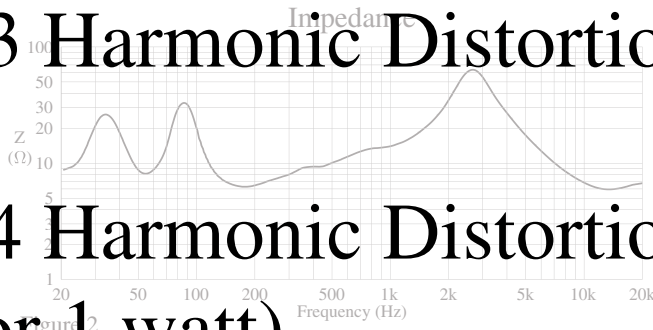
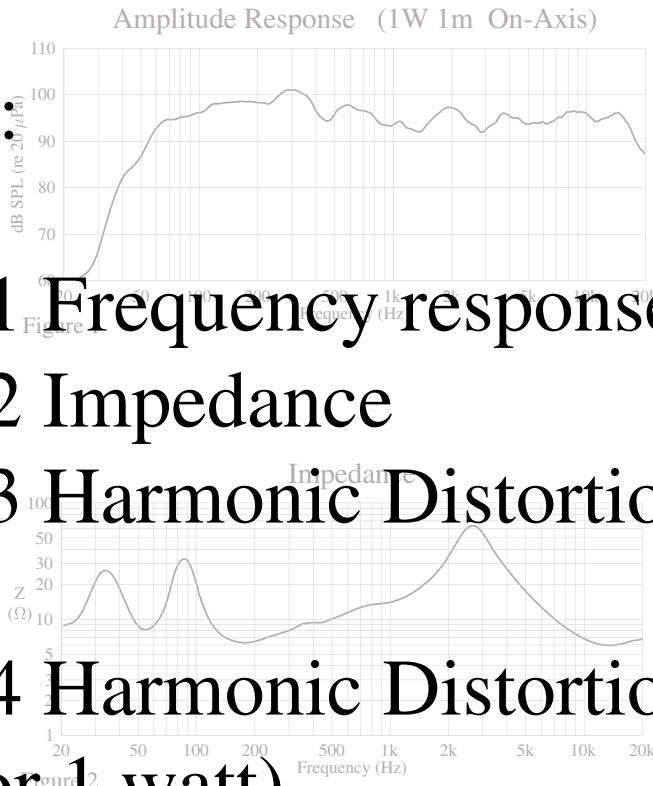


Figure 3



SANCTUARY SERIES™

by



www.sanctuary-series.com

Features and specifications subject to change without notice.

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The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005