





Description

The SSE is a new enclosure series featuring high power ratings with custom components, a sleek look and a unique, snap-in metal grille. The SSE 12 is a two-way system featuring the highly acclaimed Peavey 14T titanium compression driver with the diverse Sound Guard IV tweeter protection network and Peavey 12" woofer with 2.5" (64 mm) voice coil for smooth response. The SSE 12 is rated at 500 Watts program and 1,000 Watts peak. This lightweight speaker system is ideal for smaller venues where space is at a premium. Connections are made using a four-pin twist lock connector or a paralleled two-position terminal block for additional cabinets. The SSE 12 incorporates flying points on the top of the unit and mounting points on the bottom for utilizing the Peavey VersaMount 70 mounting bracket. The SSE Series is available in black or white finishes.

Features:

- Two-way sound reinforcement enclosure
- Designed for permanent install
- Available in black or white finishes
- Peavey * 12" woofer with 2.5" (64 mm) voice coil
- Peavey 14T[™] titanium diaphragm compression driver
- Sound Guard [™] IV tweeter protection network
- Seven flying points (six M10 for suspension and one M6 for angle adjustment)
- Mounting point for VersaMount [™] 70 bracket
- 13 mm birch plywood construction
- 500 Watts program/1000 Watts peak power handling
- 79 Hz to 17 kHz
- 98 dB at 1W/1m
- 8 Ohms

Frequency response, 1 meter on-axis, swept-sine in anechoic environment: 79 Hz to 17 kHz (±3 dB)

Usable low frequency limit (-10 dB point):

60 Hz

Power handling:

Full range: 500 W program 1,000 W peak

Sound pressure level, 1 Watt, 1 meter in anechoic environment:

Full range: 98 dB SPL (2.83 V input)

Maximum sound pressure level (1 meter):

Full range: 122 dB SPL continuous 128 dB SPL peak





Radiation angle measured at -6 dB point of polar response:

500 Hz to 1.6 kHz: Horiz. $110^{\circ} \pm 15^{\circ}$ Vert. $120^{\circ} \pm 30^{\circ}$ 1.6 kHz to 5 kHz: Horiz. $75^{\circ} \pm 15^{\circ}$ Vert. $70^{\circ} \pm 25^{\circ}$ 5 kHz to 16 kHz: Horiz. $85^{\circ} \pm 15^{\circ}$ Vert. $40^{\circ} \pm 10^{\circ}$

Directivity factor, Q (Mean): 10.27 ± 6.07

Directivity index, Di (Mean): 9.38 dB ± 2.57 dB

Transducer complement:

Low Frequency Section:
Peavey woofer with 2.5"
(64 mm) voice coil
High Frequency Section:
Peavey 14T™ titanium diaphragm
compression driver on a 90° x 40°
constant directivity horn

Box tuning frequency:

Low frequency section: 74 Hz

Harmonic distortion:

1% rated power Second harmonic: 100 Hz: 0.32% 1 kHz: 0.10% Third harmonic: 100 Hz: 0.40% 1 kHz: 0.22% 10% rated power Second harmonic: 0.56% 100 Hz: 1 kHz: 0.79% Third harmonic: 0.79% 100 Hz: 1 kHz: 0.25%

Electro-acoustic crossover frequency (internal passive):

2.8 kHz

Impedance (Z): Full range:

> Nominal: 8Ω Minimum: 5.1Ω

Input Connection:

1 four-Pin twist lock connector in parallel with one 1-position terminal strip

Enclosure materials and finish Trapezoidal, dado-joined 13 mm birch enclosure finished with a textured acrylic polyurethane with a full length metal grille covered and acoustical-grade grille cloth. Available in black or white or finishes

Mounting provisions:

(6) M10 threaded mounting suspension points (three each top and one each side and back). Use only forged shoulder machinery eye bolt, DIN 580, ASTM A489, or BGV-C1. (1) M6 x 1.0mm threaded mounting point on back bottom for angle adjustments.

(4) M6 x 1.0mm threaded mounting points on bottom to accommodate use of VersaMount™ 70 adjustable mounting bracket.

DO NOT suspend this unit upside down using VersaMount system.

Dimensions (H x W x D):

Front:
24.5" x 17.43" x 13.20"
622 mm x 443 mm x 335 mm
Rear:
24.5" x 13.14" x 13.20"
622 mm x 334 mm x 335 mm

Net Weight: 40 lbs. (18.1 kg)

Frequency response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the SSE 12 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 drivers in the SSE 12 combine to give a smooth frequency response from 79 Hz to 17 kHz.

Directivity

Beamwidth is derived from the -6 dB points from the polar plots (see figure 3) which are measured in a whole space anechoic environment. Q and Directivity Index are plotted for the on-axis measurement position. These specifications provide a reference to the coverage characteristics of the unit and provide insight into proper placement and installation in the chosen environment. The blending of the components of the SSE 12 exhibit a desirable beamwidth and directivity (figures 3 & 4) suitable for sound reinforcement applications.

Power handling

There are many different approaches to power handling ratings. Peavey rates this loudspeaker system's power handling using a full-range form of the AES Standard 2-1984. Using audio band 20 Hz to 20 kHz 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 5 & 6 for two power levels. Ten percent (10%) of rated input power and either one percent (1%) of rated input power or 1 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

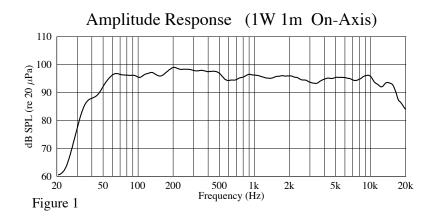
Caution: Before attempting to suspend or mount this speaker, consult a certified structural engineer. The speaker may fall due to improper installation, resulting in serious injury and property damage. DO NOT suspend or mount any other product or device from this enclosure. The maximum enclosure angle is 45°. Use only Grade 8.8 Metric hardware or better. All rigging is the responsibility of others.

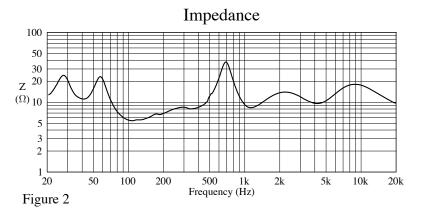
Architectural and Engineering Specifications

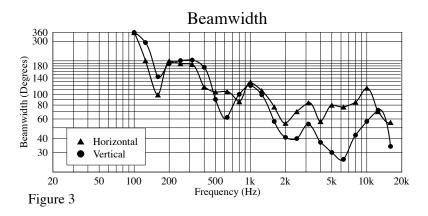
The loudspeaker system shall have an operating bandwidth of 79 Hz to 17 kHz. The nominal output level shall be 98 dB when measured at a distance of 1 meter with an input of 1 Watt. The nominal impedance shall be 8 Ohms. The maximum program power handling shall be 500 Watts with a peak power input of at least 1000 Watts and a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 90° in the horizontal plane and 40° in the vertical plane. The outside dimensions shall be 24.5" high by 17.43" wide by 13.20" deep. The weight shall be 40 lbs. The loudspeaker system shall be a model SSE 12.

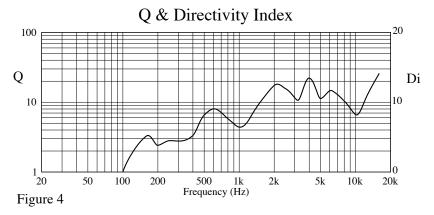
NOTE: Features and specifications subject to change without notice.

WARRANTY INFORMATION AVAILABLE ONLINE

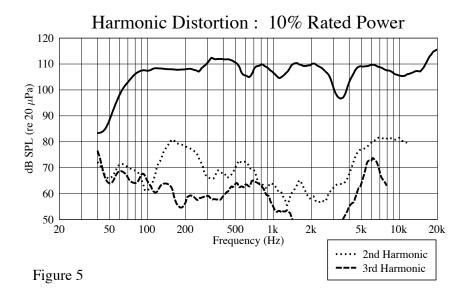


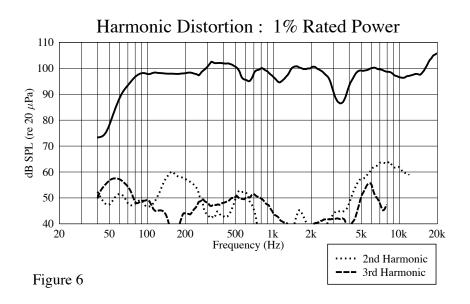




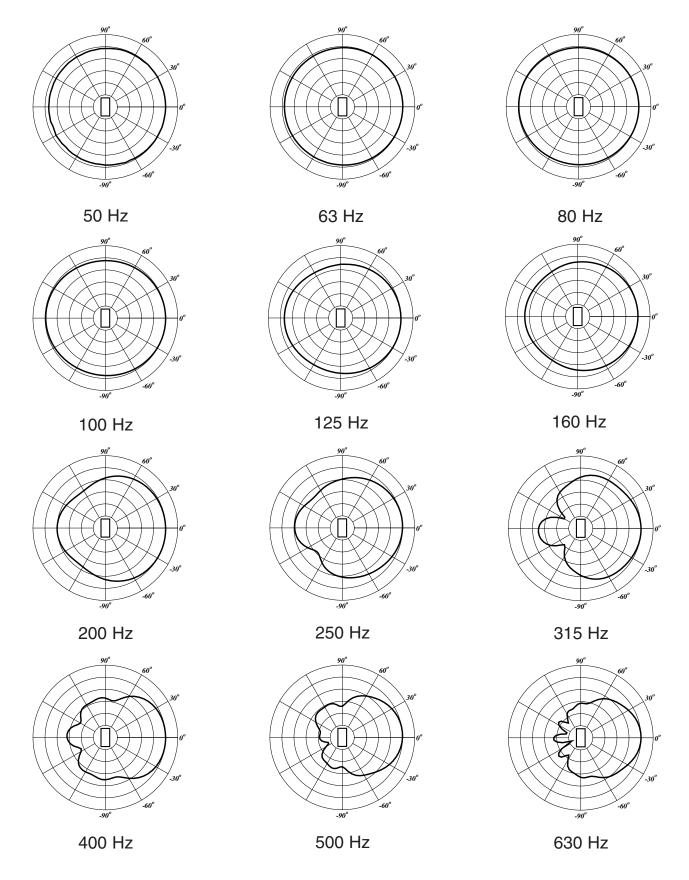


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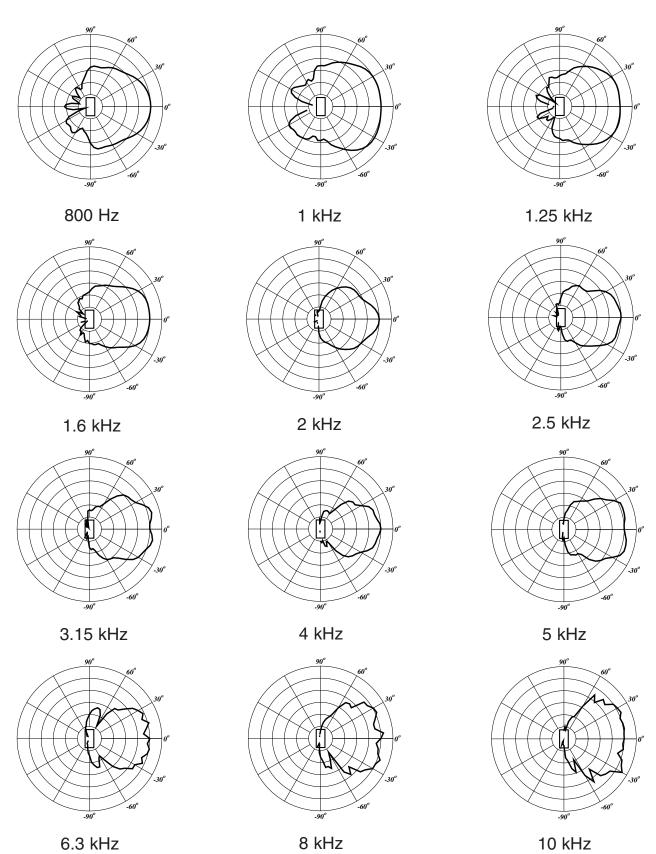


Vertical Polar Patterns 6 dB per Division

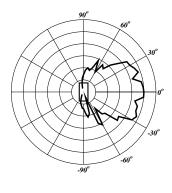




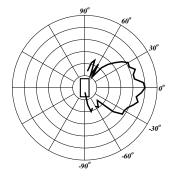
Vertical Polar Patterns 6 dB per Division



Vertical Polar Patterns 6 dB per Division



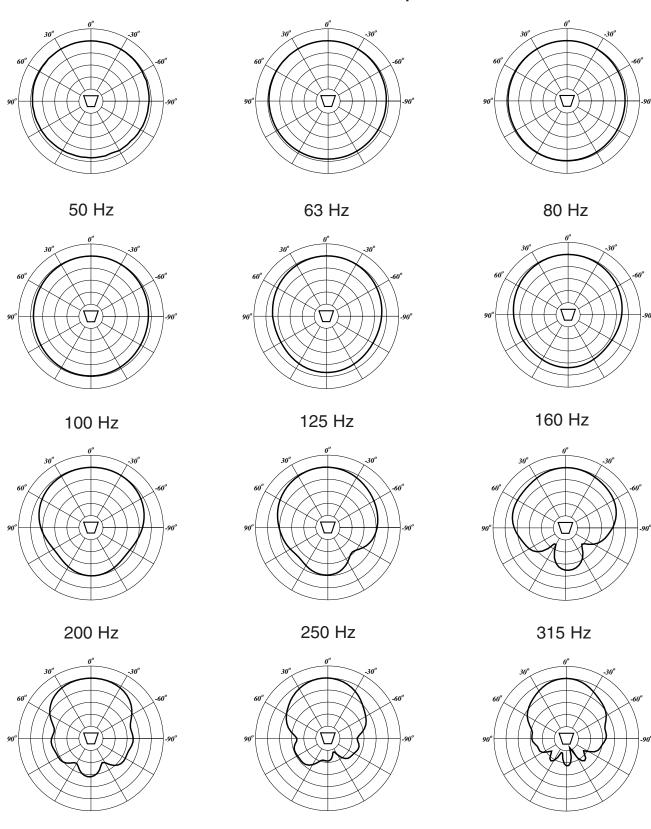
12.5 kHz



16 kHz



Horizontal Polar Patterns 6 dB per Division

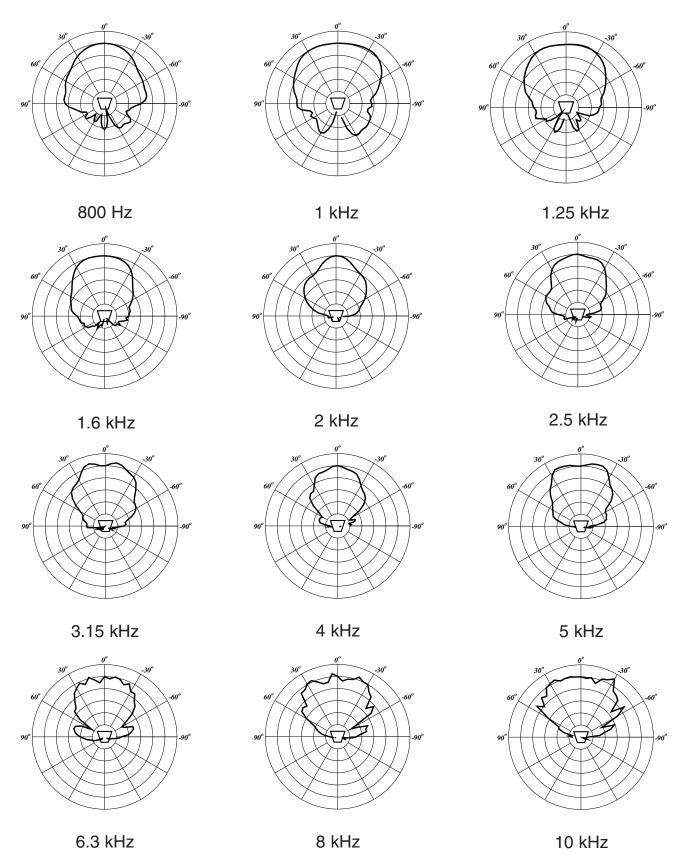


500 Hz

630 Hz

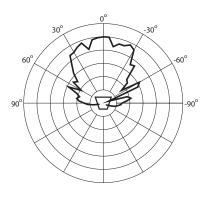
400 Hz

Horizontal Polar Patterns 6 dB per Division

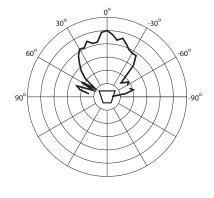




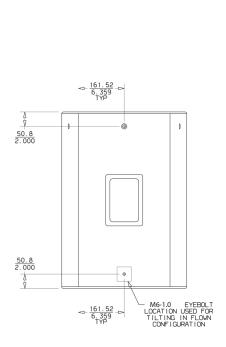
Horizontal Polar Patterns 6 dB per Division

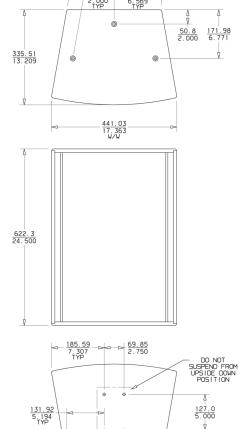


12.5 kHz

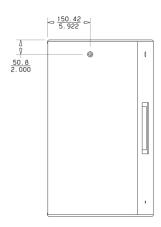


16 kHz





101.6 4.000



Input Plate



Flying/Rigging Information

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. Do not suspend or mount any other product or device from this enclosure! Maximum enclosure angle 30°. Use only the correct mating hardware. All associated rigging is the responsibility of others. DO NOT OVER TORQUE HARDWARE. ALWAYS USE SAFETY CHAIN. INSPECT RIGGING ANNUALLY.

Hardware for Flying/Rigging

Bracket bolts should be metric thread grade 8.8 or better. Eyebolts and bracket bolts must conform to certain minimum strength criteria for safety reasons. Unspecified eyebolts found at local hardware stores are not strong enough to maintain safety for overhead flying or rigging. Use only forged steel shoulder machinery eyebolts designed for rigging use. Eyebolts should comply to one of the following standards: DIN 580, ASTM A489, or the German BGV-C1 specification. This Peavey loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified in this User's Manual and possible manual update notices. This system should be suspended with certified rigging hardware by an authorized rigging professional and in compliance with local, state and federal suspension ordinances.



Warranty registration and information for U.S. customers available online at www.peavey.com/warranty or use the QR tag below



Features and specifications subject to change without notice.

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