



#### Description

The SSE 12M is a low profile monitor enclosure featuring high power ratings with custom components, a sleek look and a unique, snap in metal grille. The SSE 12M is a full range 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" (64mm) voice coil for a smooth response. The SSE 12M is rated at 500 Watts program and 1000 Watts peak. This lightweight speaker system may be placed on stage at angles of either 30 or 45 degrees and is ideal for smaller venues where stage 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 12M is available in black or white finishes.

#### Features

- Two-way monitor enclosure
- Peavey® 12" woofer with 2.5" (64mm) voice coil
- Peavey 14T™ titanium diaphragm compression driver
- Sound Guard™ IV tweeter protection network
- 500 Watts program/1000 Watts peak power handling
- 12 mm Birch plywood construction
- 79 Hz-17 kHz
- 98 dB at 1W/1m
- 8 Ohms
- Available in black or white finishes

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

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

#### Power handling:

Full range:  
500 W program  
1000 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





## SANCTUARY SERIES™

### Transducer complement:

#### Low frequency section:

Peavey® 12" woofer with 2.5" (64mm) 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:

100 Hz: 0.56%

1 kHz: 0.79%

#### Third harmonic:

100 Hz: 0.79%

1 kHz: 0.25%

### Electro-acoustic crossover frequency (internal passive):

2.8 k

### Impedance (Z):

#### Full range:

Nominal: 8 Ω

Minimum: 5.4 Ω

### Input connection:

One four-pin twist lock connector in parallel with one two-position terminal strip

### Enclosure materials & finish:

Finished with a textured acrylic polyurethane, dado-joined 12 mm Birch with a full length metal grille covered with acoustical-grade grille cloth. Available in black or white finishes.

### Dimensions (H x W x D):

15.22 in. x 24.5 in. x 16.96 in.

387 mm x 622 mm x 431 mm

### Net weight:

35 Lbs. (15.88 kg)

### Frequency response

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

### 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 3 & 4 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.

### Architectural & engineering specifications

The loudspeaker system shall have an operating bandwidth of 79 Hz to 17kHz. The nominal output level shall be 98 dB when measured at a distance of a 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 15.22" high by 24.5" wide by 16.96 inches deep. The weight shall be 35 lbs. The loudspeaker system shall be a model SSE 12M.

NOTE: Features and specifications subject to change without notice.

WARRANTY INFORMATION AVAILABLE ONLINE

Amplitude Response (1W 1m On-Axis)

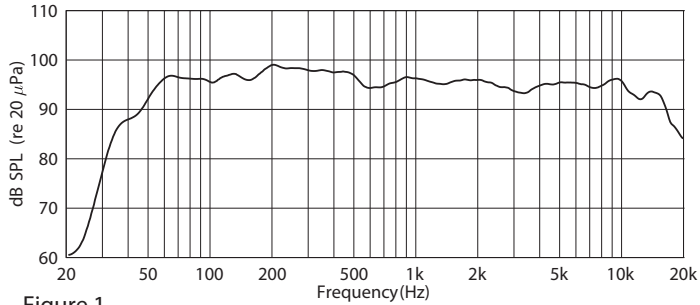


Figure 1

Harmonic Distortion: 10% Rated Power

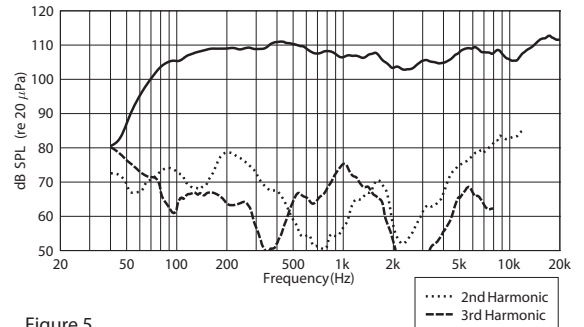


Figure 5

Impedance

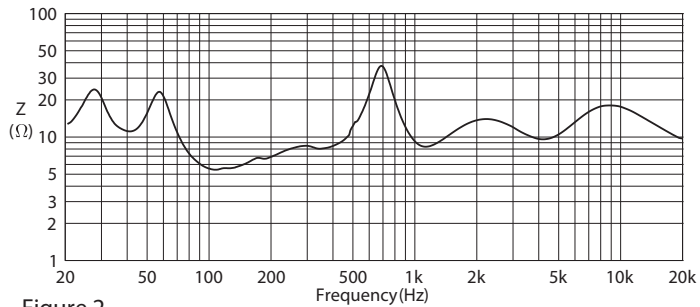


Figure 2

Harmonic Distortion: 1% Rated Power

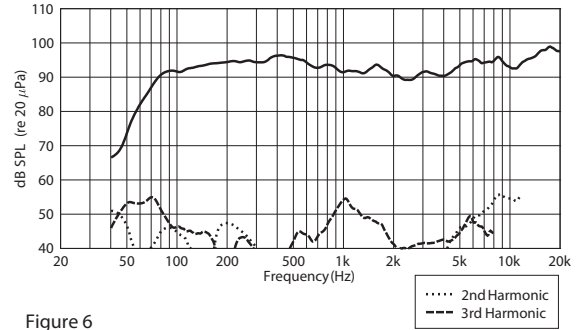
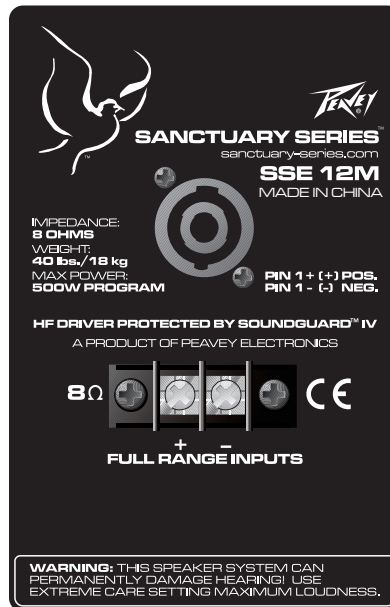


Figure 6

## Input Plate





[www.sanctuary-series.com](http://www.sanctuary-series.com)

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Logo referenced in Directive 2002/96/EC Annex IV  
(OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005  
The bar is the symbol for marking of new waste and  
is applied only to equipment manufactured after  
13 August 2005