

# SP E A V E Y E L E C T R O N I C S

## SP™ 118X

### 8 Ohms

#### SPECIFICATIONS

Frequency response, 1 meter on-axis, swept-sine in anechoic environment:

50 Hz - 300 Hz ( $\pm 3$  dB)

Usable low frequency limit (-10 dB point):

31 dB

#### Power handling:

Sub Bass Section:

500 W continuous

1,000 W program

2,000 W peak

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

Sub Bass Section:

98.0 dB SPL, (2.83 V input)

Maximum sound pressure level (1 meter):

Sub Bass Section:

125.0 dB SPL continuous

131.0 dB SPL peak

#### Transducer complement:

Sub Bass Section:

1 x 18" woofer, vented

1808-8sps BW

#### Box tuning frequency:

Sub Bass Section: 39 Hz

#### Harmonic Distortion:

1% rated power

2nd Harmonic:

100 Hz: 0.37%

1 kHz: 0.46%

3rd Harmonic:

100 Hz: 0.23%

1 kHz: 0.59%

10% rated power

2nd Harmonic:

100 Hz: 0.82%

1 kHz: 1.68%

3rd Harmonic:

100 Hz: 0.53%

1 kHz: 0.74%



#### Impedance (Z):

Sub Bass:

Nominal: 8.0  $\Omega$

Minimum: 7.5  $\Omega$

#### Input connections:

2 x 1/4" jack

#### Enclosure materials and finish:

3/4" OSB and MDF finished in carpet

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

Front:

32.50 in. x 20.75 in. x 29.97 in.

826 mm x 527 mm x 761 mm

Rear:

32.50 in. x 20.75 in. x 29.97 in.

826 mm x 527 mm x 761 mm

#### Net weight:

122 lbs. (55.4 kg)

#### Features

This loudspeaker system delivers high output, low distortion bass from a single 18" BWX woofer mounted in a vented enclosure. It is designed for portability and includes handles, metal grille, reinforcing

corners, durable carpet finish and rubber feet. A pole mount is included for mounting of a high-pass enclosure.

#### Description

The SP 118X is an add-on subwoofer designed to make it easy to add more low end to the SP X Series or other full-range speaker systems. Other uses include bass guitar and drum monitoring.

The enclosure is constructed of 3/4" high density OSB and MDF, and covered with a heavy-duty black carpet and reinforced with polymer corners. A black metal grille covers the front of the enclosure. Recessed handles on either side provide portability.

This low frequency enclosure is comprised of an 18" BWX Black Widow® woofer with Kevlar® impregnated cone, mounted in a vented enclosure. This design provides strong bass extension and high power handling to complement a full-range sound system.

As the SP™ 118X does not include a passive subwoofer crossover, input should be electronically filtered for subwoofer applications.

### Frequency Response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the SP 118X 8 Ohm is measured at a distance of 1-meter using a 1 Watt (into the nominal impedance) swept-sine input signal. The solid line represents anechoic response, and the dotted line shows typical room response. As shown in figure 1, the selected drivers in the SP 118X 8 Ohm combine to give a smooth frequency response from 50 Hz - 300 Hz.

### 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 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.

### Architectural & Engineering Specifications

The loudspeaker system shall have an operating bandwidth of 50 Hz - 300 Hz. The nominal output level shall be 98.0 dB when measured at a distance of one meter with an input of one Watt. The

nominal impedance shall be 8.0 Ohms. The maximum continuous power handling shall be 500 Watts, maximum program power of 1,000 Watts and a peak power input of at least 2,000 Watts, with a minimum amplifier headroom of 3 dB. The outside dimensions shall be 32.50 inches high by 20.75 inches wide by 29.97 inches deep. The weight shall be 122 pounds. The loudspeaker system shall be a Peavey model SP 118X 8 Ohm.

### 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.

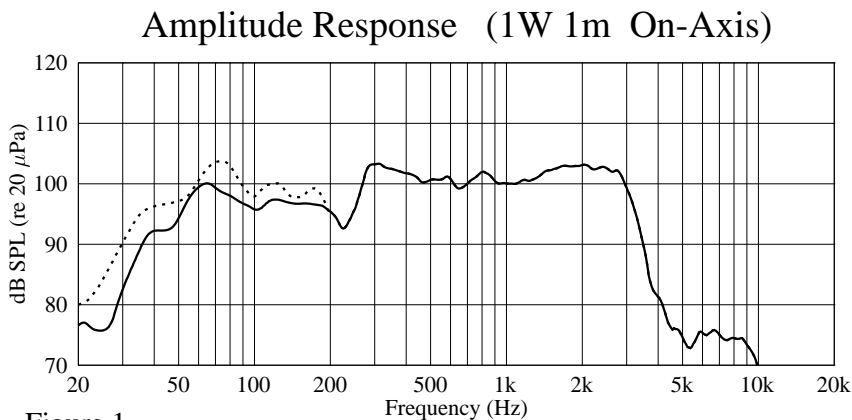


Figure 1

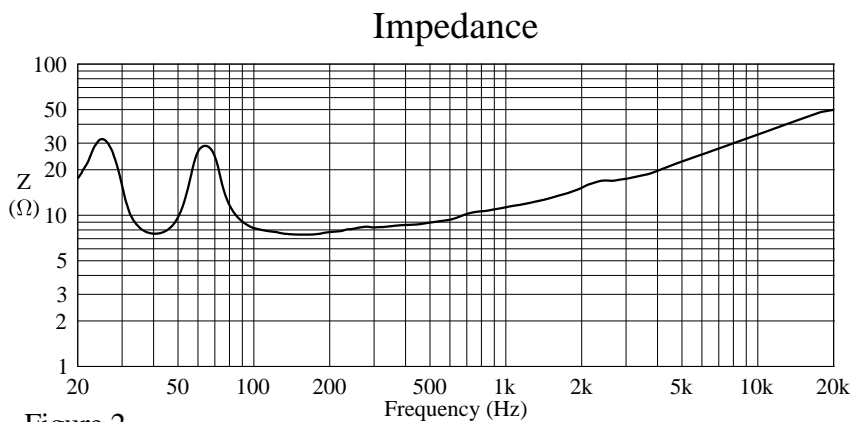
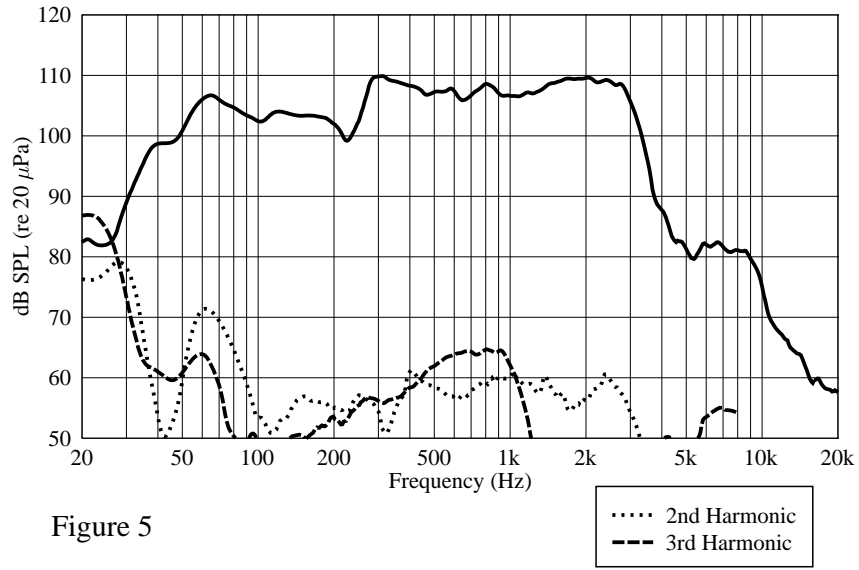
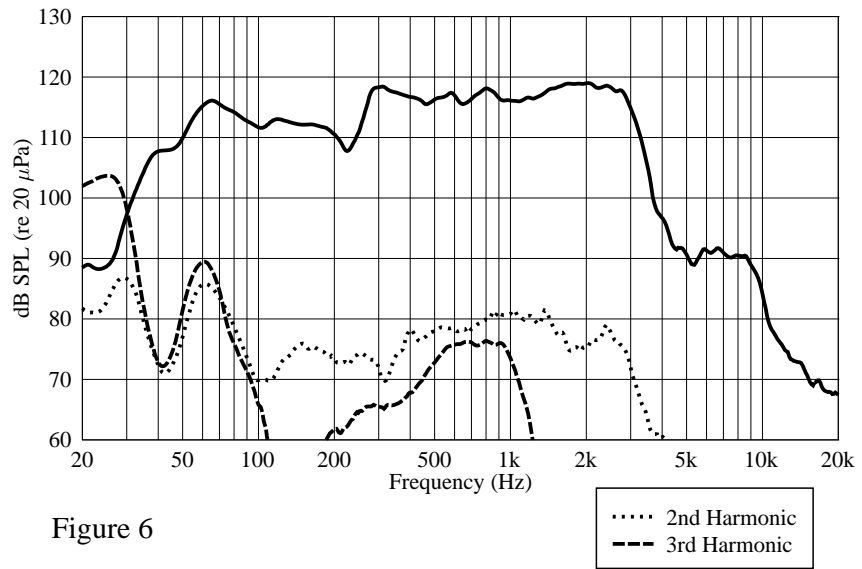


Figure 2

### Harmonic Distortion at 1/100 Rated Power



### Harmonic Distortion at 1/10 Rated Power



SP™ 118X 8 OHMS INPUT

**SP™ 118X 8 OHMS**



MAX POWER: 1000W PROGRAM

WARNING: THIS SPEAKER SYSTEM CAN  
PERMANENTLY DAMAGE HEARING! USE  
EXTREME CARE SETTING MAXIMUM LOUDNESS



8 OHMS

122 LBS.  
55.4 kg.

INPUTS  
IN PARALLEL



*LISTEN TO THIS™*

Features and specifications subject to change without notice.

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