SPECIFICATIONS SP™ 12M



Frequency Response, 1 meter on-axis, swept-sine in anechoic environment:
108 Hz to 14 kHz (±3 dB)

Usable Low Frequency Limit (-10dB point):
77 Hz

Power Handling:
Full range:
500 watts continuous
1,000 watts program
2,000 watts peak

Sound Pressure Level, 1 Watt, 1 meter in anechoic environment:
Full range:
98.0 dB SPL (2.83 V input)

Maximum Sound Pressure Level (1meter):
Full range:
125 dB SPL continuous
131 dB SPL peak

Radiation Angle measured at -6 dB point of polar response:
40° horizontal by 90° vertical

Transducer Complement:
Low Frequency Section:
One 12" woofer
1208-8 HE SF BWX
High frequency section:
One .875" exit/51 mm voice coil
Rx™22 compression driver on a CH-3R horn

Box Tuning Frequency:
Low frequency section:
73 Hz

Crossover Frequency (internal passive):
Low frequency - high frequency:
1,700 Hz

Impedance (Z):
Full Range:
Nominal: 8.0 w
Minimum: 6.4 w

Input Connections:
Full Range: Two 1/4" phone jacks and one four-pin twist lock connector

Enclosure Materials & Finish:
Hardwood panel coated with Peavey's HammerHead™ polyurea finish.

Mounting Provisions:
This unit is not designed for overhead suspension.
Metal stand mount adapter incorporated and eight rubber feet on two sides for dual-angle use.

Dimensions (H x W x D):
45° baffle orientation:
15.75" x 24.25" x 18.75"
400 mm x 616 mm x 476 mm

30° baffle orientation:
15.94" x 24.25" x 17.63"
405 mm x 616 mm x 448 mm

Net Weight:
51 lbs. (23.13 kg)

Features
- Two-way, full-range floor monitor
- 1,000 watts program; 2,000 watts peak
- 12" BWX Black Widow® woofer, 4" VC, field-replaceable basket
- Rx™22 compression driver with ferrofluid cooling
- Sound Guard™ III tweeter protection
- Hardwood panel coated with Peavey's HammerHead™ polyurea finish
- Dual-baffle angles of 45° or 30°
- Two 1/4" full-range phone-jack inputs in parallel with a four-pin twist lock connector
- Perforated steel grille
- Stand-mount adapter

Description
The new SP 12M is a two-way floor monitor speaker system comprised of a 12" Black Widow® SF woofer with a Kevlar® impregnated cone and an enclosure, made from a hardwood panel and coated with Peavey's heavy-duty polyurea finish for increased durability and ruggedness. A full length wrap-around perforated steel grille protects the front of the enclosure. An metal stand mount adapter is built in for side-fill or PA use.

The low frequencies are provided by the 12" Black Widow BWX SF woofer with a Kevlar impregnated cone and dust cap. Capable of over 500 watts of continuous power handling (AES Std 2-1984), the woofer can handle a lot of power, which also results in very low power compression. The high frequencies are handled by a 2" Rx™22 titanium diaphragm compression driver utilizing ferrofluid cooling. This superb driver is coupled to a constant directivity horn with smooth, even response and good high frequency dispersion. The Rx™22 driver features the Radialinear Planar Phase Correction System (U.S. Patent 6,064,745), which provides smoother and extended high frequency response.

Input connection to the system is made via two 1/4" phone jacks and a four-pin twist lock connector in parallel. The internal passive crossover features the Sound Guard™ III tweeter protection circuit and an advanced topology crossover with high performance components to provide high power handling and reliability. Sound Guard™, Peavey's proprietary high-frequency driver protection circuitry, provides long- and medium-term driver overload protection without impairing musical transients or dynamics. The crossover provides driver roll off and protection as well as driver EQ for the woofer and horn for clean, clear, smooth response. High quality, reliable crossover components include polypropylene capacitors and high current inductors. The optimal integration of the crossover with the selected drivers results in a smooth frequency response from 108 Hz to 14 kHz, making it highly appropriate for monitor applications.

Despite its compact dimensions for a 12" floor monitor enclosure, this system can put out some very high sound levels and handle 1000 watts of undistorted amplifier power program, resulting in clean monitoring with high articulation and reliability.

Frequency Response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the SP 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 SP 12M combine to give a smooth frequency response from 108 Hz to 14 kHz.

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 available amplifier headroom.

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.

Mounting

This unit is not designed for over head suspension. Includes built-in metal stand mount adapter. Eight rubber feet on two sides enable dual-angle use.

Architectural & Engineering Specifications

The loudspeaker system shall have an operating bandwidth of 108 Hz to 14 kHz. The nominal output level shall be 98 dB when measured with an input of one watt. The nominal impedance shall be 8 ohms. The maximum continuous power handling shall be 500 watts with maximum program power of 1000 watts, a peak power input of at least 2,000 watts and a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 40 degrees in the horizontal plane, and 90 degrees in the vertical plane. The outside dimensions shall be 15.75" high by 24.25" wide by 18.75" deep with the unit in the 45° baffle orientation. The weight shall be 51 lbs. The loudspeaker system shall be a Peavey model SP 12M.

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.

Amplitude Response (1W 1m On-Axis)

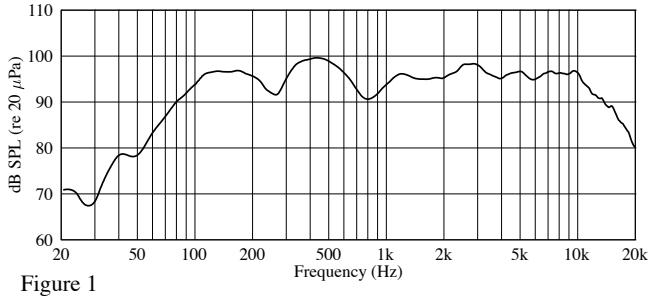


Figure 1

Impedance

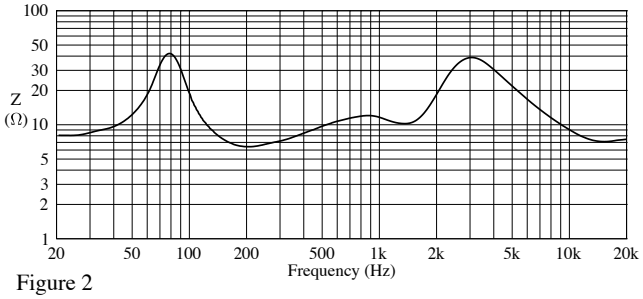


Figure 2

Harmonic Distortion : 1% Rated Power

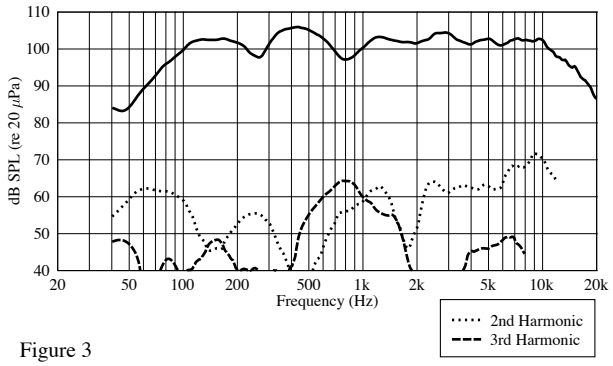


Figure 3

Harmonic Distortion : 10% Rated Power

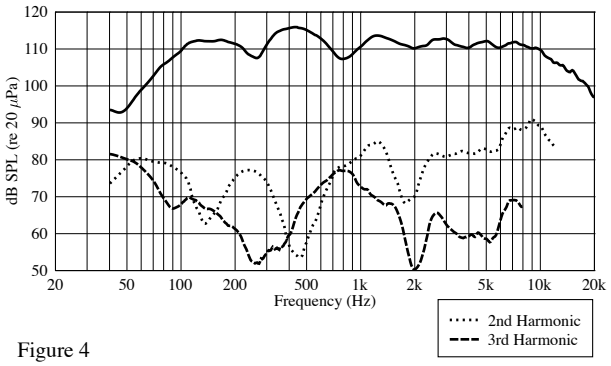
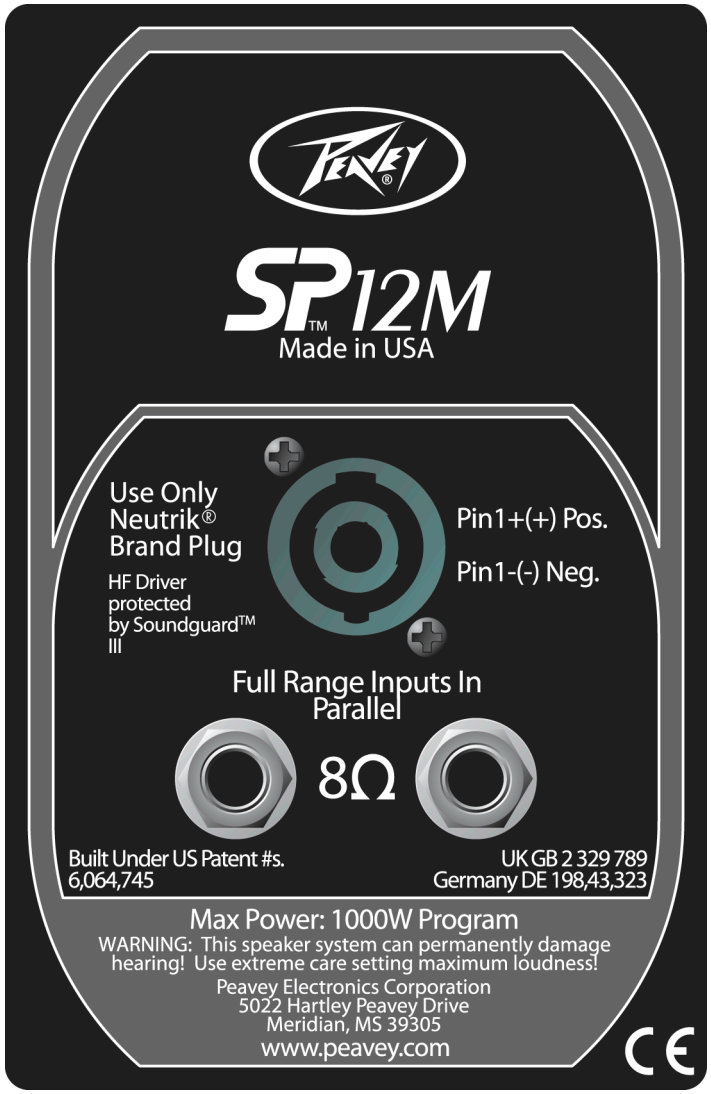


Figure 4

SP 12M Input Plate



80305764

Features and specifications are subject to change without notice.

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PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

Effective Date: 11/01/2011

What This Warranty Covers
Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

What This Warranty Does Not Cover
The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

Who This Warranty Protects
This Warranty protects only the original purchaser of the product.

How Long This Warranty Lasts
The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Product Category	Duration
Guitars/Basses, Amplifiers, Preamplifiers, Mixers, Electronic Crossovers and Equalizers	2 years *(+ 3 years)
Drums	2 years *(+ 1 year)
Enclosures	3 years *(+ 2 years)
Digital Effect Devices and Keyboards and MIDI Controllers	1 years *(+ 1 year)
Microphones	2 years
Speaker Components (incl. Speakers, Baskets, Drivers, Diaphragm Replacement Kits and Passive Crossovers)	1 year
Tubes and Meters	90 Days
Cables	Limited Lifetime
AmpKit Link, Xport, Rockmaster Series, Strum'n Fun, RetroFire, GT & BT Series Amps	1 year
Marvel Jr. Guitar	90 Days

[Denotes additional Warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]*

What Peavey Will Do
We will repair or replace (at Peavey's discretion) products covered by Warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for Warranty service, the consumer must pay initial shipping charges. If the repairs are covered by Warranty, Peavey will pay the return shipping charges.

How To Get Warranty Service
(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.
OR
(2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of Warranty coverage. Also provide a complete return address.

Limitation of Implied Warranties
ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.
Some states do not allow limitations on how long an implied Warranty lasts, so the above limitation may not apply to you.

Exclusions of Damages
PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this Warranty or services received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365.

Features and specifications are subject to change without notice.



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

U.S. CUSTOMER WARRANTY REGISTRATION

Optional Product Extended Warranty Registration

Give us some information and put your extended warranty into effect!

Please take a few minutes to fill out this information/survey sheet to help us get to know and serve you better.

To save time, submit your warranty registration online at www.peavey.com/support/warrantyregistration

1.

First Name _____ Initial _____ Last Name _____

Street Address _____

City _____ State/Province _____ Postal Code _____

( ) _____ Telephone Number

E-mail Address _____

( ) _____ Fax Number

- - Date of birth

Gender ❒ M ❒ F

2.

Model _____ Serial # _____

Date of Purchase _____ Price Paid _____

3.

Name of store where purchased _____

City _____ State _____

4. Top two (2) reasons why you purchased from this store/dealer:

- ❒ Availability of product
- ❒ Friend/Relative's recommendation
- ❒ Store credit card
- ❒ Knowledgeable staff
- ❒ Availability of lessons
- ❒ Technical instruction
- ❒ Past favorable experience
- ❒ Best price
- ❒ Advertised special
- ❒ Convenient location
- ❒ Received as a gift
- ❒ Other _____

5. Where do you most often shop for music and sound products?

- ❒ Independent retailer
- ❒ Mass market retailer
- ❒ Mail order magazines
- ❒ Newspaper ads
- ❒ Internet/Web sites
- ❒ Other _____

6. What two (2) factors most influenced your purchase of this product?

- ❒ Peavey brand name
- ❒ Craftsmanship
- ❒ Features for price
- ❒ Bundled accessories
- ❒ Sound quality
- ❒ Product appearance
- ❒ Durability
- ❒ Prior experience with Peavey
- ❒ Packaging
- ❒ Other _____

7. How did you learn about this Peavey product? *(select best answer)*

- ❒ Magazine review
- ❒ Newspaper review
- ❒ Radio advertisement
- ❒ Advertised special
- ❒ Friend/Relative's recommendation
- ❒ Salesperson's recommendation
- ❒ Teacher's recommendation
- ❒ Catalog or flyer
- ❒ Saw in store
- ❒ Use by professional
- ❒ Other _____

8. Which other brands/models did you consider?

9. How would you describe your level of musicianship/technical expertise?

- ❒ Beginner - Never played or taken less than one (1) year of lessons
- ❒ Intermediate - One (1) to five (5) years of lessons or playing
- ❒ Advanced - More than five (5) years of lessons or playing; play professionally

10. Education: *(select best answer)*

- ❒ High school
- ❒ Some college
- ❒ Completed college
- ❒ Graduate school

11. Which best describe your family income? *(select best answer)*

- ❒ Under $15,000
- ❒ $15,000 - $24,999
- ❒ $25,000 - $34,999
- ❒ $35,000 - $49,999
- ❒ $50,000 - $74,999
- ❒ $75,000 - $99,999
- ❒ $100,000 - $149,999
- ❒ Over - $150,000

12. Which of the following is your primary source of information on musical products: *(select best answer)*

- ❒ Television
- ❒ Radio
- ❒ Internet
- ❒ Newspaper
- ❒ Magazines
- ❒ Mail order catalogs
- ❒ Direct mail
- ❒ Literature from manufacturer
- ❒ Other _____

13. What is your main motivation for buying new equipment?

- ❒ Replacing old product
- ❒ Want new and leading edge equipment
- ❒ Fullfill a specific need
- ❒ Supplement existing products
- ❒ Value
- ❒ Impulse
- ❒ Need for improved performance
- ❒ New technology
- ❒ Availability of product
- ❒ Other _____

14. Please list your three most frequently visited Web sites.

1. http://_____
2. http://_____
3. http://_____

15. In your opinion, what could Peavey do to improve its products and/or service? Please use the space below to tell us your answer.

_____

_____

_____

Revised 1/11

Thank you for taking the time to fill out our survey! Don't forget to fold and tape (with Peavey address facing out), affix postage stamp and drop in the mail!



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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

FROM:

_____

_____

_____

_____

Place Postage Here

Peavey Electronics Corporation
Attn: Warranty Department
P.O. Box 5108
Meridian, Ms 39302-5108