

# SPECS

PEAVEY ELECTRONICS

## DS™-1803

### Full Range Three-way Enclosure

#### SPECIFICATIONS

**Frequency Response:**

45 Hz - 20 kHz

**Low Frequency Limit (-3 dB point):**

45 Hz

**Useable Low Frequency Limit  
(-10 dB point):**

38 Hz

**Power Handling:**

250 watts continuous (44.7 volts RMS)

500 watts program

**Sound Pressure Level****1 Watt at 1 Meter Swept Sine Input  
in Anechoic Environment:**

99 dB

**Maximum Sound Pressure Level:**

123 dB

**Transducer Complement:**

One 18" Kevlar impregnated cone 1801-8  
Black Widow® woofer

One 22T™ compression driver loaded onto  
a a CH™-3 90°H x 45°V horn

One HT™-94 90°H x 45°V super tweeter

**Tuning Frequency (F box):**

40 Hz

**Crossover Frequency:**

800 Hz and 8 kHz

**Crossover Type:**

Passive

**Electrical Crossover Slope:**

12 dB/octave low pass, 12 dB/octave band-  
pass, 18 dB/octave high pass

**Impedance (Nominal):**

8 ohms

**Impedance (Minimum):****Input Connections:**

Two ¼" female full-range inputs in parallel,  
one ¼" female biamp low, and one ¼"  
female biamp high

**Enclosure Materials and Finish:**

¾" high density plywood, covered with a  
wear resistant carpet reinforced with steel  
corners

**Dimensions:**

26.125" (66.36 cm) W x 43.75" (111.13 cm)  
H x 20.125" (51.12 cm) D

**Net Weight:**

126 lbs.



## FEATURES

- One 18" Black Widow® (1801-8)
- CH™-3 horn with 22T™ compression driver
- HT™-94 super tweeter
- Recessed handles
- Durable carpet covering
- ¾" high-density plywood construction
- Tuned and ported enclosure design
- Casters
- Impedance: 8 ohms

## DESCRIPTION

The DS™-1803 is a full-range, 3-way enclosure designed for flexibility in application. It is primarily designed for musical playback, dance music, and portable sound systems. The cabinet is constructed of 7-ply, ¾", high-density plywood, covered with a wear-resistant carpet, then reinforced with steel corners. A semi-transparent grille is attached to the baffle to provide component protection. Casters are added for mobility. The three-way system is comprised of an 18 inch 1801-8 Black Widow® low frequency driver, a 22T™ compression driver loaded onto a CH™-3 constant directivity horn supplying the mid and mid-high frequencies, and a HT™-94 super tweeter to reproduce the high and ultra-high frequencies. The frequency spectrum is divided by a 3-way

passive crossover, allowing the drivers to operate in optimum time alignment to give the system a smooth frequency response from 45 Hz out to 20,000 Hz. Full range or biamp operation is available via ¼" inputs.

## FREQUENCY RESPONSE

This measurement is useful in determining how accurately a given enclosure reproduces an input signal. The frequency response of the DS-1803 is measured at 1 meter using a 2.82 volt swept sine input. As shown in Figure 1, the selected drivers in the DS-1803 combine to give a smooth frequency response from 45 Hz to 20 kHz.

## POWER HANDLING

There are many different approaches to power handling ratings. Peavey rates this speaker system's power handling using a modified form of the AES Standard 2-1984. Utilizing audio band (20 Hz-20 kHz) pink noise with peaks over 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. The test signal contains large amounts of very low frequency energy, effectively simulating the frequency content of live music situations. The full

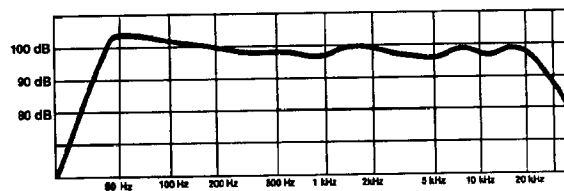
measure of high frequencies in the test signal allow for exposure of the speaker system to synthesized tones that may extend beyond audibility. This rating is contingent on having a minimum 3 dB of amplifier headroom available.

## ARCHITECTURAL & ENGINEERING SPECIFICATIONS

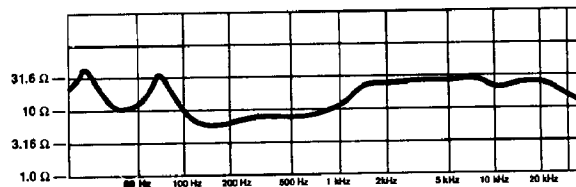
The loudspeaker system shall have an operating bandwidth of 45 Hz to 20 kHz. The output level shall be 99 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 8 ohms. The continuous power handling shall be 250 watts, maximum program power of 500 watts, with a minimum amplifier headroom of 3 dB. The outside dimensions shall be 26.125" wide by 43.75" high by 20.125" deep. The weight shall be 126 pounds. The loudspeaker system shall be a Peavey model DS™-1803.

## ONE 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 39302-2898.



DS™-1803



Features and specifications subject to change without notice.

Peavey Electronics Corporation 711 A Street / Meridian, MS 39302-2898 / U.S.A. / (601) 483-5365 / Telex: 504115 / Fax: 484-4278