

# SUPERWOOFER SYSTEM

FB-100



## DESCRIPTION

The FB-100 is a low-frequency sound subwoofer system suitable for playing BGM/FGM in restaurants, boutiques, meeting rooms, AV rooms, etc. The system is compact and doesn't take up a lot of space. Because the system is trapezoidal in shape, it can be installed in corners as well as on ceilings and flat wall surfaces.

The urethane-painted enclosure is made of a strong, 15mm-thick Medium Density Fiberboard (MDF) and can be easily repainted to match the interior of any buildings.

The FB-100 is a powerful speaker with a 25cm high amplitude woofer capable of handling 450 watts of program input. The system consists of a woofer unit having an extended voice coil with diameter of 50 mm, a large 120mm ferrite magnet, non-pressed paper cone designed to withstand large output of low-frequency sounds, and a wide, durable damper with strong damping power indispensable for clear low-frequency sound reproduction.

The system can reproduce super-low frequencies of down to 35Hz thanks to its Acoustic Super Woofer enclosure that creates an acoustic band-pass filter. The Acoustic Super Woofer enclosure construction cuts mid and high frequencies even if band limitations, such as a low-pass filter, are not performed for input signals, permitting the system to function as a subwoofer even if music signals are input without band limitations.

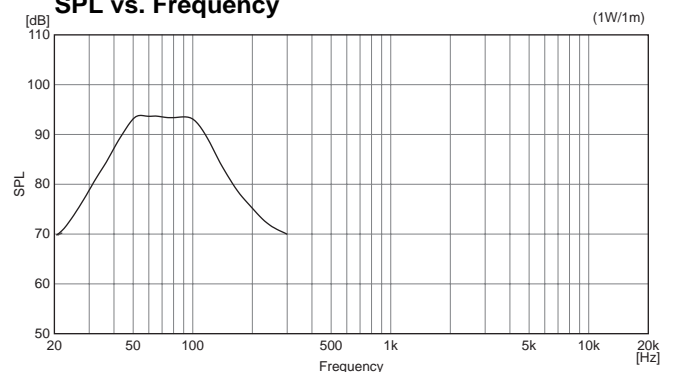
Six external mounting screws are positioned along the sides of the enclosure to facilitate eye bolt-suspended installations. The unit's input terminals employ detachable connectors for easy wiring. Also, the unit's removable top panel facilitates maintenance work after installation.

The system can be converted to high-impedance applications with the addition of the optional MT-S0601 matching transformer.

## FEATURES

- Port radiation and acoustic band pass filter design for smooth low-frequency response.
- 15 mm thick MDF enclosure that can be repainted to blend in with the interior of any buildings.
- 10-inch (25cm) woofer with ferrite magnet and extended voice coil.
- 450 watt power handling capacity (continuous program input).
- Removable terminal block with loop-through termination for convenient parallel speaker connection.
- Six mounting points on the sides for suspended installation.
- Removable top panel facilitates maintenance work after installation.
- Optional MT-S0601 matching transformer.

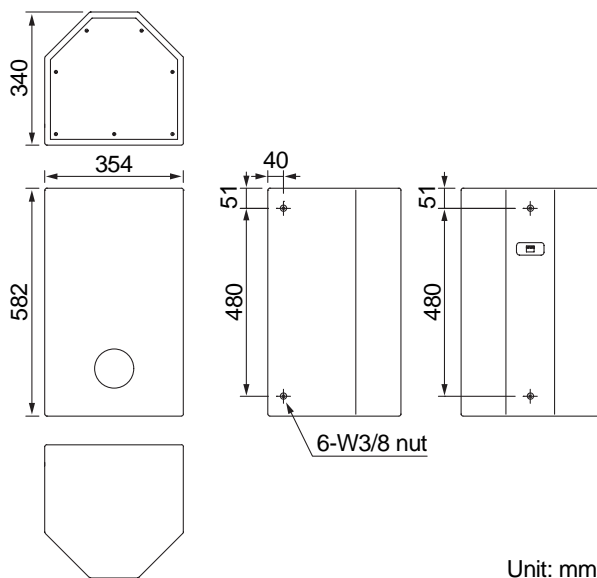
SPL vs. Frequency



## SPECIFICATIONS

|                         | FB-100   |
|-------------------------|--|
| Enclosure               | Acoustic Super Woofer  |
| Power Handling Capacity | 450 W (Continuous program, 40 – 200 Hz)<br>150 W (Continuous pink noise, 40 – 200 Hz)  |
| Rated Impedance         | 8 $\Omega$   |
| Sound Pressure Level    | 88 dB (1 W, 1 m) installation in free sound field<br>(Measured in anechoic chamber.)<br>94 dB (1 W, 1 m) installation in 1/2 free sound field<br>(Measured by installing the unit in the center of a ceiling or wall.) |
| Frequency Response      | 35 – 160 Hz (–10 dB) installation in 1/2 free sound field<br>(Measured by installing the unit in the center of a ceiling or wall.)   |
| Speaker Component       | 25 cm cone speaker   |
| Input Terminal          | Detachable screw terminal, (+)/(-) 2 each (for bridging connection)  |
| Usable cable            | Solid cable, stranded cable: 0.2 – 2.5 mm <sup>2</sup> (AWG No.24 – 14)  |
| Finish                  | MDF, black, paint  |
| Dimensions              | 354 (W) x 582 (H) x 340 (D) mm   |
| Weight                  | 16 kg  |
| Option                  | Matching transformer: MT-S0601 (rated 60 W)  |

## APPEARANCE AND DIMENTIONAL DIAGRAM



## MATCHING TRANSFORMER MT-S0601



|                   |  |
|-------------------|--|
| Rated Input Power | 60 W   |
| Input Impedance   | 100 V Line: 170 ohms (60 W),<br>330 ohms (30 W),<br>670 ohms (15W)<br>70 V Line: 83 ohms (60 W),<br>170 ohms (30 W),<br>330 ohms (15 W),<br>670 ohms (7.5 W) |
| Output Impedance  | 8 ohms   |
| Weight            | 1.2 kg   |

