

Cabinet Loudspeakers

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BOSCH

Invented for life



- ▶ Good speech intelligibility and background music reproduction
- ▶ Available in black or white
- ▶ MDF construction
- ▶ Complies with international installation and safety regulations

The LB1-UW12-x1 is a 12 W, general-purpose, cost-effective loudspeaker for indoor use. Keyholes at the rear provide quick and easy wall mounting. The angled front baffle results in a better sound in the listening area. The cabinet is available in black or white.

Functions

The robust, solid MDF (Medium Density Fiber board) enclosures are covered with a durable, easy-to-clean vinyl in a choice of white or black. The ABS fronts are covered with fine woven cloth in matching color. The angled front baffle results in improved high frequency reproduction in the listening area.

Certifications and approvals

Quality assurance

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. Bosch has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that they can withstand two times their rated power for short durations. This ensures improved reliability under extreme conditions, leading

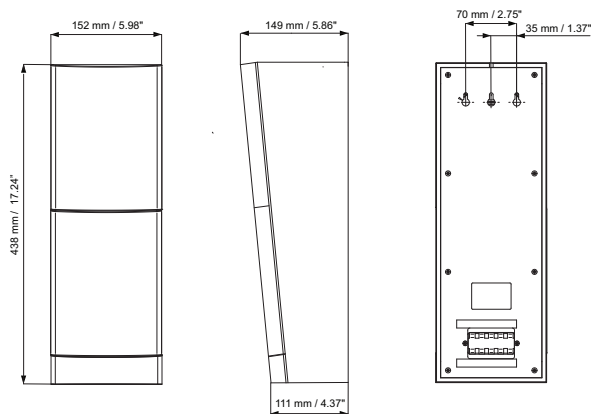
to higher customer satisfaction, longer operating life, and lessens the chance of failure or performance deterioration.

Safety

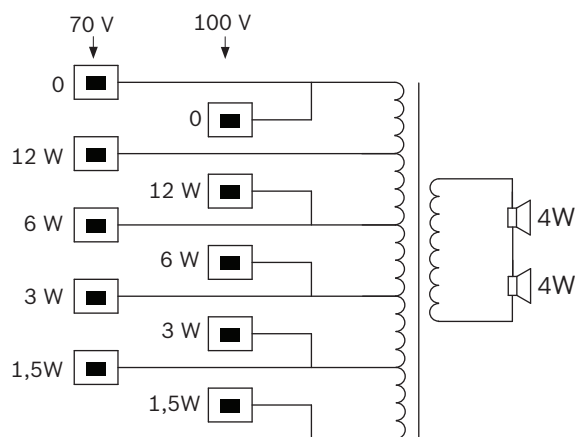
acc. to EN 60065

Installation/configuration notes

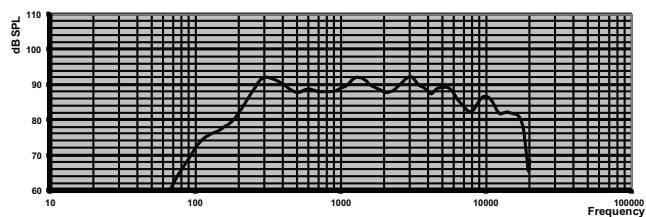
Three keyholes in the rear panel provide easy and quick wall mounting. A convenient easy-to-use, double five-pole push-in terminal block is present on the rear panel for on-site wiring. This terminal block has provision for power tapping on the 70 V / 100 V, matching transformer in the cabinet. It allows selection of nominal full-power, half-power, quarter-power or eighth-power radiation (in 3 dB steps).



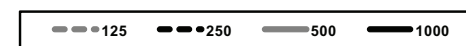
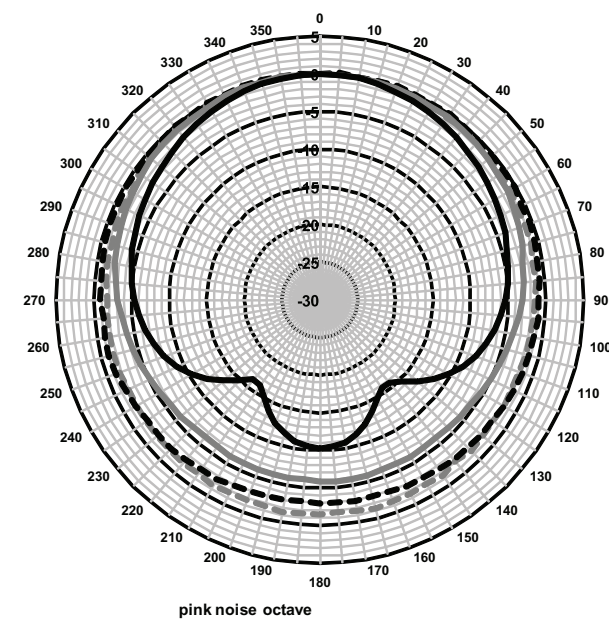
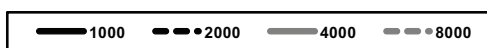
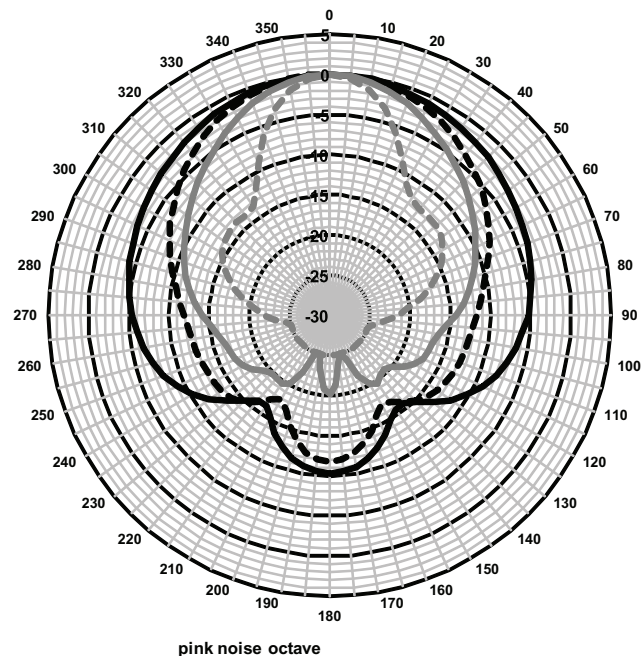
Dimensions



Circuit diagram



Frequency response



Polar diagrams (Measured with pink noise)

Octave band sensitivity*

| | Octave SPL 1W/1m | Total octave SPL 1W/1m | Total octave SPL Pmax/1m |
|--------------|---------------------|------------------------------|--------------------------------|
| 125 Hz | 76.4 | - | - |
| 250 Hz | 90.7 | - | - |
| 500 Hz | 89.5 | - | - |
| 1000 Hz | 90.7 | - | - |
| 2000 Hz | 90.3 | - | - |
| 4000 Hz | 90.6 | - | - |
| 8000 Hz | 87.2 | - | - |
| A-weighted | - | 87.1 | 99.8 |
| Lin-weighted | - | 87.9 | 100.8 |

Octave band opening angles

| | Horizontal | Vertical | |
|---------|------------|----------|--|
| | 360 | >180 | |
| 250 Hz | 360 | >180 | |
| 500 Hz | 360 | 136 | |
| 1000 Hz | 190 | 60 | |
| 2000 Hz | 106 | 34 | |
| 4000 Hz | 82 | 18 | |
| 8000 Hz | 40 | 27 | |

Acoustical performance specified per octave

* (all measurements are done with a pink noise signal; the values are in dB SPL)

Technical specifications

Electrical*

| | |
|--|-----------------------|
| Maximum power | 18 W |
| Rated power | 12 / 6 / 3 / 1.5 W |
| Sound pressure level at 12 W / 1 W (1 kHz, 1 m) | 102 / 91 dB (SPL) |
| Effective frequency range (-10 dB) | 185 Hz to 17 kHz |
| Opening angle | 1 kHz / 4 kHz (-6 dB) |
| horizontal | 190° / 82° |

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| | |
|---------------------|----------------------------------|
| vertical | 60° / 18° |
| Rated input voltage | 70 V / 100 V |
| Rated impedance | 417 / 833 ohm |
| Connector | 2x 5-pole push-in terminal block |

* Technical performance data acc. to IEC 60268-5

Mechanical

| | |
|---------------------------|---|
| Dimensions (H x W x D) | 441x151x150/111 mm (17.4x5.9x5.9/4.4 in) |
| Weight | 2.45 kg (5.4 lb) |
| Color | Black (D1) or white (L1) |
| cabinet / cloth (D1) | Matches RAL 9004 / RAL 9004 |
| cabinet / cloth (L1) | Matches RAL 9010 / RAL 7044 |

Environmental

| | |
|-----------------------|---|
| Operating temperature | -25 °C to +55 °C (-13 °F to +131 °F) |
| Storage temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Relative humidity | <95% |

Ordering information

Cabinet Loudspeaker

Cabinet loudspeaker 12 W, MDF enclosure with fine-woven cloth front, finished in black, with 3 keyholes for wall mounting.

Order number **LB1-UW12-D1**

Cabinet Loudspeaker

Cabinet loudspeaker 12 W, MDF enclosure with fine-woven cloth front, finished in white, with 3 keyholes for wall mounting.

Order number **LB1-UW12-L1**