

LB7-UC06E ABS cabinet loudspeaker 6 W



- ▶ Suitable for speech and music reproduction
- ▶ Compact size
- ▶ Knock-out ports for conduit - or cable entries
- ▶ EN 54-24 certified

The ABS Cabinet loudspeaker 6 W is suitable for speech and music reproduction and is applicable for use in voice alarm systems. The ABS rectangular cabinet is made from ABS with a metal grille front.

Regulatory information

Quality assurance

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 60268-5 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.

Emergency	According to EN 54-24
Safety	According to IEC/EN 62368-1
Self-extinguishing	According to UL 94 V 0
Water and dust protected	According to EN 60529, IP21

Installation/configuration notes

The rectangular ABS cabinet has a removable metal front grille. Easy to install, hidden wall mounting by using two screws supplied with the product.

Two knock-out holes at the top- and bottom of the cabinet allow for easy entry of cable or conduct. Two rubber grommets in matching color of the cabinet are delivered as standard.

The loudspeaker is provided with a two pole ABS screw terminal block. The transformer allows selection of nominal full-power, half-power, quarter power or eight-power radiation (in 3 dB steps) by connecting the 70 V or 100 V line to the appropriate primary tap on the matching transformer.

After wiring and mounting the cabinet to the wall, the metal front grille can be pushed back on the cabinet.

The cabinet has provisions for internally mounting the optional line/loudspeaker supervision board.

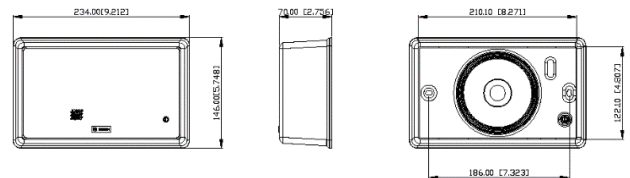


Fig. 1: Dimensions in mm (in)

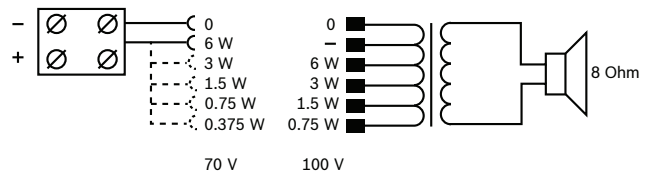


Fig. 2: Circuit diagram

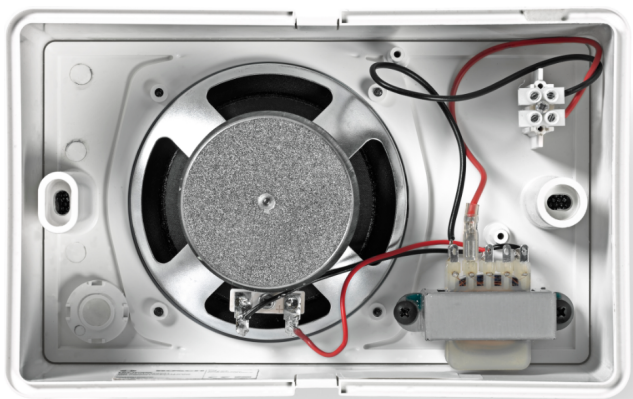


Fig. 3: Rear view

Parts included

Quantity	Component
1	Cabinet loudspeaker
1	Installation instruction
2	Mounting screws (4 x 38 mm)
2	Rubber grommets

Technical specifications

Electrical*

Maximum power (W)	9 W
Rated power (W)	6 W
Transformer taps 70 V line (W)	6 W; 0.75 W; 1.5 W; 3 W; 0.375 W
Transformer taps 100 V line (W)	6 W; 0.75 W; 1.5 W; 3 W
Sensitivity (1 W, 1 m, 1 kHz octave) (dB)	93 dB
Sensitivity (1 W, 4 m, 100 Hz - 10 kHz) (dB), acc. EN 54-24	79 dB
Sound pressure level (rated power, 1 m, 1 kHz octave) (dB)	101 dB
Sound pressure level (rated power, 4 m, 100 Hz - 10 kHz) (dB), acc. EN 54-24	89 dB
Frequency range (-10 dB) (Hz)	170 Hz - 20,000 Hz
Coverage angle HxV (-6 dB, 500 Hz) (°)	180 x 180°
Coverage angle HxV (-6 dB, 1 kHz) (°)	180° x 180°

Coverage angle HxV (-6 dB, 2 kHz) (°)	130 x 110°
Coverage angle HxV (-6 dB, 4 kHz) (°)	85° x 98°
Rated input voltage (V)	70 V; 100 V
Rated impedance 70 V line (Ω)	833 Ω @6 W
	1,667 Ω @3 W
	3,333 Ω @1.5 W
	6,667 Ω @0.75 W
	13,333 Ω @0.375 W
Rated impedance 100 V line (Ω)	1,667 Ω @6 W
	3,333 Ω @3 W
	6,667 Ω @1.5 W
	13,333 Ω @0.75 W

*Technical performance data acc. to IEC 60268-5

Note:

- The specification data was measured in an anechoic chamber, mounted in an IEC-baffle.
- The reference plane is on the grille surface and perpendicular to the reference axis.
- The reference axis is perpendicular to the center point of the front grille surface.
- The horizontal plane contains the reference axis and is perpendicular to the reference plane.

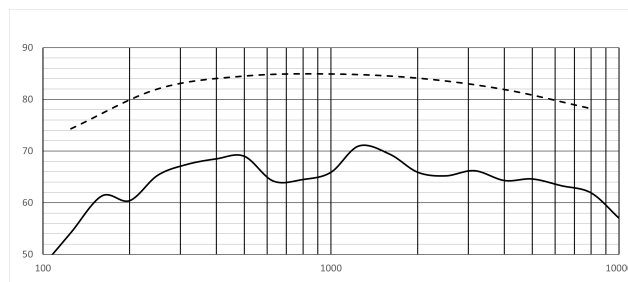


Fig. 4: Frequency response graph (- 1/3rd octave dB SPL @1 W(100 Hz - 10 kHz), 4 m; - 1/1th octave dB SPL @1 W(100 Hz - 10 kHz), 1 m

(1/3) rd octave band	dB SPL at 4 m, 1 W/octave
100	47.8
125	54.2
160	61.3

(1/3) rd octave band	dB SPL at 4 m, 1 W/octave
200	60.4
250	65.3
315	67.4
400	68.5
500	69.0
630	64.2
800	64.5
1000	65.9
1250	71.0
1600	69.4
2000	65.9
2500	65.2
3150	66.2
4000	64.3
5000	64.6
6300	63.3
8000	61.9
10000	57.0

(1/1) th octave band	dB SPL at 1 m, 1 W/octave
125	74.3
250	82.0
500	84.5
1000	84.9
2000	84.1
4000	81.9
8000	78.2

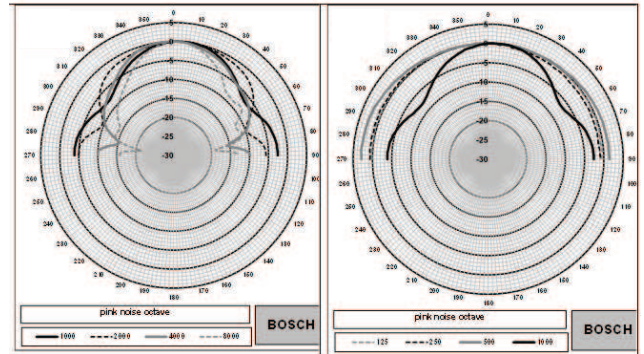


Fig. 5: Polar diagrams

Mechanical

Dimensions (H x W x D) (mm)	146 mm x 234 mm x 70 mm
Dimensions (H x W x D) (in)	5.75 in x 9.21 in x 2.76 in
Weight (kg)	1.08 kg
Weight (lb)	2.38 lb
Color (RAL)	RAL 9003 Signal white
Connector type	2-pole ABS screw terminal block
Wire diameter (mm)	4 mm

Environmental

Operating temperature (°C)	-10 °C – 55 °C
Operating temperature (°F)	14 °F – 131 °F
Storage temperature (°C)	-40 °C – 70 °C
Storage temperature (°F)	-40 °F – 158 °F
Transportation temperature (°C)	-40 °C – 70 °C
Transportation temperature (°F)	-40 °F – 158 °F
Relative humidity	<95%



Bosch Security Systems BV
Torenallee 49, 5617 BA Eindhoven, the Netherlands
18
1438-CPR-0591

EN 54-24:2008
Loudspeaker for voice alarm systems for fire detection
and fire alarm systems for buildings
Cabinet Loudspeaker 6 W
LB7-UC06E
Type A
DoP: DECL DoP EUR EN54-24 LB7-UC06E-ABS

Ordering information

LB7-UC06E ABS cabinet loudspeaker 6 W
ABS cabinet loudspeaker 6 W
Order number **LB7-UC06E | F.01U.329.933**

Represented by:

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Platz 1
D-70839 Gerlingen

North America:
Bosch Security Systems, LLC
130 Perinton Parkway
Fairport, New York, 14450, USA

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943