

LB7-UC06E-AB A/B Cabinet Loudspeaker 6 W



This A/B Cabinet loudspeaker has two independent 6 W loudspeaker systems and is suitable for sound systems where redundancy is requested. In normal situations, both loudspeakers are powered with the same audio signal from independent amplifiers. In case the A-line fails, the other connected loudspeaker receives the signal from line B and the other way around.

In mainly small areas, A/B loudspeakers provide an economic and efficient solution compared to installing two separate cabinet loudspeakers.

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

- ▶ High efficiency
- ▶ Two independent loudspeaker systems in one housing
- ▶ Knock-out ports for conduit - or cable entries
- ▶ EN 54-24 certified

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 two independent loudspeakers are provided with transformers and separate screw terminals. The transformers allow selection of nominal full-power, half-power, quarter or eighth-power radiation (in 3 dB steps) by connecting the 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.

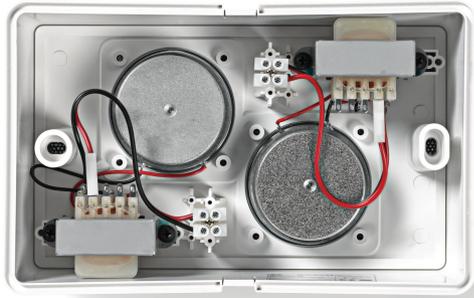


Fig. 1: Rear view

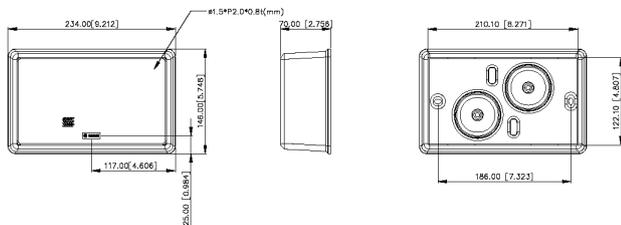
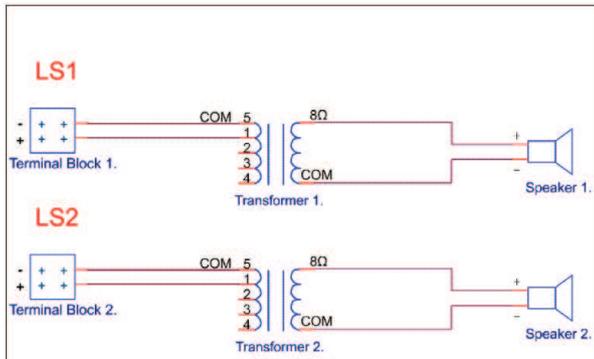


Fig. 2: Dimensions in mm (in)



POS.	Power: 100V	
	LS1	LS2
1	8W	8W
2	3W	3W
3	1.5W	1.5W
4	0.75W	0.75W

Fig. 3: Circuit diagram

Parts included

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

Technical specifications

Electrical*

Maximum power (W)	2 x 9 W
Rated power (W)	2 x 6 W
Transformer taps 100 V line (W)	0.75 W; 1.5 W; 3 W; 6 W
Sensitivity (1 W, 1 m, 1 kHz octave) (dB)	88 dB
Sensitivity (1 x 1 W, 4 m, 100 Hz - 10 kHz) (dB)	75 dB
Sensitivity (2 x 0.5 W, 4 m, 100 Hz - 10 kHz) (dB)	77 dB
Sound pressure level (rated power, 1 m, 1 kHz octave) (dB)	95 dB
Sound pressure level (rated power, 4 m, 100 Hz - 10 kHz) (dB) 1 x 6 W	84 dB
Sound pressure level (rated power, 4 m, 100 Hz - 10 kHz) (dB) 2 x 6 W	88 dB
Frequency range (-10 dB) (Hz)	190 Hz – 20,000 Hz
Octave band coverage angle (1 x 6 W)	
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) (°)	160° x 130°
Coverage angle HxV (-6 dB, 4 kHz) (°)	120° x 136°
Octave band coverage angle (2 x 0.5 W)	
Coverage angle HxV (-6 dB, 500 Hz) (°)	180° x 180°
Coverage angle HxV (-6 dB, 1 kHz) (°)	155° x 180°
Coverage angle HxV (-6 dB, 2 kHz) (°)	85° x 110°
Coverage angle HxV (-6 dB, 4 kHz) (°)	71° x 47°
Rated impedance 100 V line (Ω)	13333 @0.75 W
	6667 Ω @1.5 W
	3333 Ω @3 W
	1667 Ω @6 W

Connector type	2 x 2-pole ABS screw terminal block
Acceptable wire gauge	0.5 - 4 mm ²

*Technical performance data acc. to IEC 60268-5

Note:

- The specification data was measured in an anechoic chamber, mounted on 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.

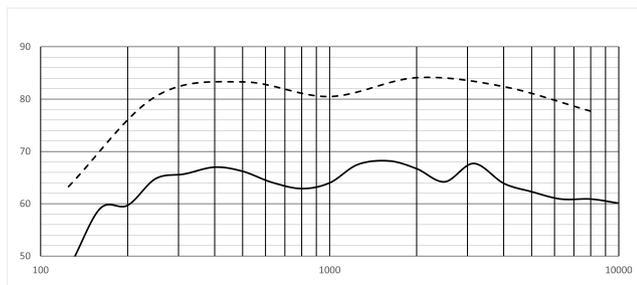


Fig. 4: Frequency response graph (– 1/3rd octave dB SPL @1 W(100 Hz – 10 kHz), 4 m; -- 1/1th octave dB SPL @1 W(100 Hz – 10 kHz), 1 m)

(1/3) rd octave band	dB SPL at 4 m
100	41.4
125	47.8
160	59
200	59.7
250	64.8
315	65.7
400	67
500	66.2
630	64.1
800	62.9
1000	64
1250	67.5
1600	68.2
2000	66.7

(1/3) rd octave band	dB SPL at 4 m
2500	64.2
3150	67.7
4000	63.9
5000	62.3
6300	60.9
8000	60.9
10000	60.1

(1/1) th octave band	dB SPL at 1 m
125	63.3
250	80.5
500	83.3
1000	80.5
2000	84.1
4000	82.4
8000	77.7

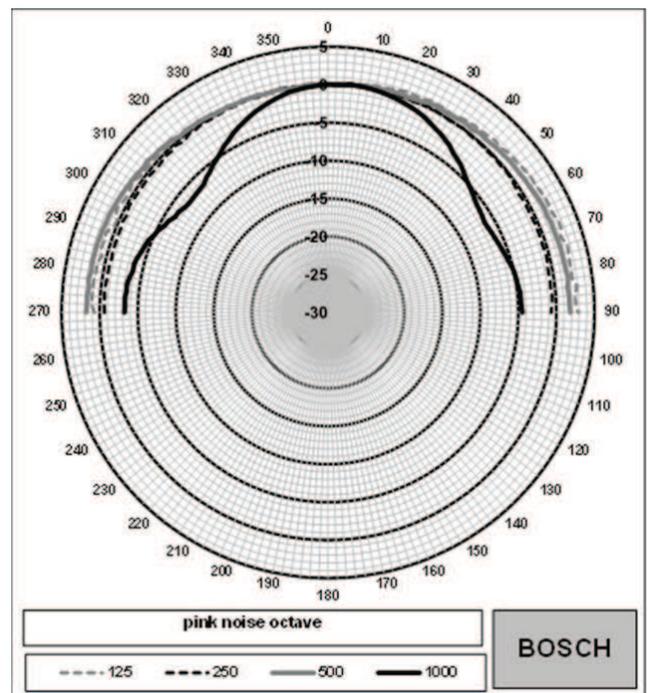


Fig. 5: Polar diagram (low frequency part)

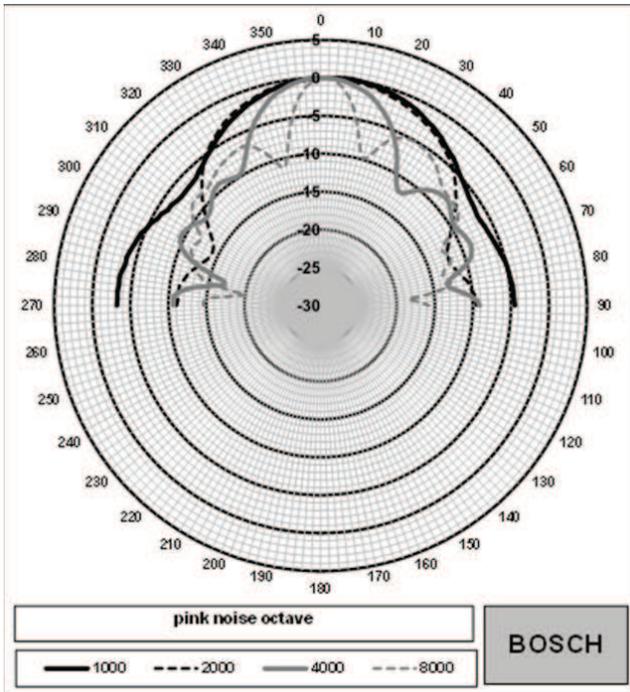


Fig. 6: Polar diagram (high frequency part)

 1438
Bosch Security Systems BV Torenallee 49, 5617 BA Eindhoven, the Netherlands 18 1438-CPR-0579
EN 54-24:2008 Loudspeaker for voice alarm systems for fire detection and fire alarm systems for buildings A/B Cabinet Loudspeaker 6 W LB7-UC06E-AB Type A DoP: DECL DoP EUR EN54-24 LB7-UC06E-AB

Ordering information

LB7-UC06E-AB A/B Cabinet Loudspeaker 6 W
 A/B Cabinet loudspeaker with two independent
 loudspeaker systems
 Order number **LB7-UC06E-AB | F.01U.326.611**

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)	1.33 kg
Weight (lb)	2.87 lb
Color (RAL)	RAL 9003 Signal white

Environmental

Operating temperature (°C)	-10 °C – 55 °C
Storage temperature (°C)	-40 °C – 70 °C
Transportation temperature (°C)	-40 °C – 70 °C
Operating relative humidity, non-condensing (%)	0% – 95%

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