WisBlock RAKBox-B2 Enclosure Datasheet

RAKBox-B2 is an IP67 rated enclosure for outdoor usage. It is designed specifically for the WisBlock products.

Lightweight Plastic Design

- The enclosure is a small, lightweight, yet very rigid design.
- Perfect for setups where space is limited.
- It is rated I67/NEMA-6, so it is a weather proof.
- The enclosure has a top mounted solar panel for battery charging.

![RAKBox-B2 Enclosure Overview](image1)

Figure 1: RAKBox-B2 Enclosure Overview

Mechanical Characteristics

- Dimensions W x L x H: 95mm x 65mm x 58mm
- Weight: approximately 7.45oz (211.2g)
- Material thickness: 3mm
- Pole and wall-mounting: 60~75mm pole diameter
- Logo customization possibility
- Optional openings for N-type antenna and external components with a gland

![RAKbox B2 Enclosure](image2)

Figure 2: RAKbox B2 Enclosure

Solar Panel Characteristics

- The front side of enclosure with Solar Panel
• Dimensions: 60mm x 60mm x 2mm
• Voltage at nominal power: 5V (±10%)
• Current at nominal power: 80mA (±5%)
• Cell efficiency: 17.5%
• Work Environment:
  • Temperature: -20-65°C, Humidity: 45-95%, UV resistance
• The ZH1.5-2P connector, red cable is for positive pole, black cable is for negative pole

![Figure 3: Solar Panel Connector](image)

Ports

• 1x 16mm Ports supporting N-type connectors, Circular connector GX16
• 1x 12mm Ports supporting Vent valve, Circular connector GX12

WisBlock module support

The enclosure is compatible with the following WisBlock modules:

• WisBase Base RAK5005-O
• WisBase Core RAK4631
• WisBase Sensor RAK1901
• WisBase Sensor RAK1902
• WisBase Sensor RAK1904
• WisBase Sensor RAK1906
• WisBase Sensor RAK1910
• WisBase IO RAK5801
• WisBase IO RAK5802
• WisBase IO RAK5811
• WisBase IO RAK5804
• WisBase IO RAK2305
• WisBase IO RAK5860

Package Content

• Enclosure together with port plugs
• Mounting Kit

Mounting Kit

A set of brackets for wall or pole mounting is included in the package.
Figure 4: Mounting Kit