DEWIN QBRYYBRCA-GS110472Z

DEWIN Smart WiFi Circuit Breaker Instruction Manual

Model: QBRYYBRCA-GS110472Z | Brand: DEWIN

1. Important Safety Information

Please read all safety warnings and instructions carefully before installing or operating this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Professional Installation Required:** Installation and wiring of this circuit breaker must be performed by a qualified electrician in accordance with all local and national electrical codes.
- **Power Disconnection:** Always disconnect the main power supply before performing any installation, wiring, or maintenance on the device.
- **Voltage Compatibility:** Ensure the device's voltage and current ratings match your electrical system requirements. This device is designed for AC 230V systems with a current range of 1-63A.
- **Environmental Conditions:** Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- **Intended Use:** This product is connected via WiFi and is suitable for most scenarios with DIN rails.**It is prohibited from being used for photovoltaic metering.**

2. Product Overview

The DEWIN Smart WiFi Circuit Breaker is an intelligent device designed for remote control and monitoring of electrical circuits. It integrates seamlessly with the Tuya Smart App, allowing users to manage power, set timers, and monitor energy consumption from anywhere.

Key Features:

- **Smart Chip Technology:** Utilizes high-performance chips and integrated circuits for accurate measurement, with an error rate controlled within 0.3%.
- **Wide Application:** Suitable for various DIN rail installations, including electricity metering systems, schools, markets, home appliances, industrial settings, and laboratories.
- **Remote Control:** Monitor and control the device remotely via the mobile app. View real-time data such as

total energy consumption, current, voltage, and power.

- **Advanced Timing Functions:** Set single timing, cycle timing, and countdown functions to automate power switching for different scenarios.
- **High-Quality Construction:** Made from high-quality PC material, ensuring high flame retardancy, impact resistance, and extended durability.
- **Easy DIN Rail Installation:** Designed for universal 35mm DIN rail mounting, requiring no screws for a simple, compact, and practical installation.

3. Product Specifications

Parameter	Value
Manufacturer	DEWIN
Model Number	QBRYYBRCA-GS110472Z
Material	PC
Working Voltage	230VAC
Working Voltage Range	80-400VAC (single phase)
Rated Current	1-63A
WiFi Frequency	2.4GHz
Installation Method	DIN rail 35mm
Product Dimensions	7.1 x 2 x 9 cm (2.81 x 0.75 x 3.43 inches)
Item Weight	111 g
Batteries Required	No

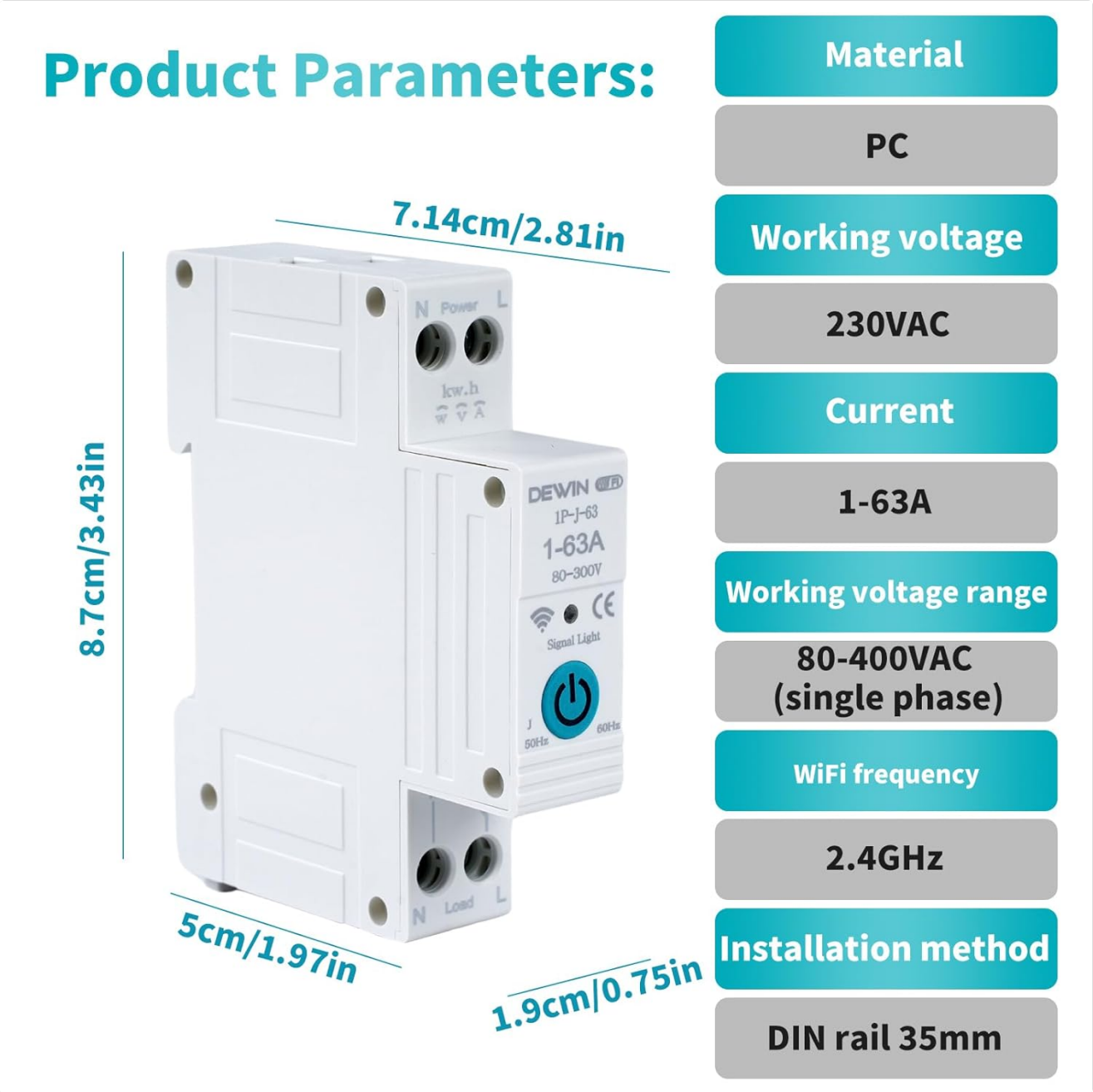

Figure 1: Product Parameters and Dimensions. This diagram illustrates the physical dimensions of the DEWIN Smart WiFi Circuit Breaker and lists its key technical specifications, including material, working voltage, current range, WiFi frequency, and installation method.

4. Package Contents

The package includes the following items:

- 1 x DEWIN Smart WiFi Circuit Breaker

5. Installation

The DEWIN Smart WiFi Circuit Breaker is designed for easy installation on a standard 35mm DIN rail.

5.1 DIN Rail Mounting

1. Ensure the main power supply is disconnected before installation.
2. Align the circuit breaker with the 35mm DIN rail.
3. Press the device firmly onto the rail until it clicks into place. No screws are required for mounting.

Figure 2: Standard 35mm DIN Rail Installation. This image demonstrates how the circuit breaker is securely mounted onto a universal 35mm DIN rail, highlighting the ease of installation without the need for additional fasteners.

5.2 Wiring Instructions

Refer to the wiring diagram below for correct connection of the live (L) and neutral (N) lines.

1. Identify the input terminals (Power) and output terminals (Load) on the device.
2. Connect the incoming live (L) and neutral (N) wires from your power source to the respective 'Power' input terminals.
3. Connect the outgoing live (L) and neutral (N) wires to your load (appliance/circuit) from the respective 'Load' output terminals.

4. Ensure all connections are tight and secure to prevent loose contacts and potential hazards.

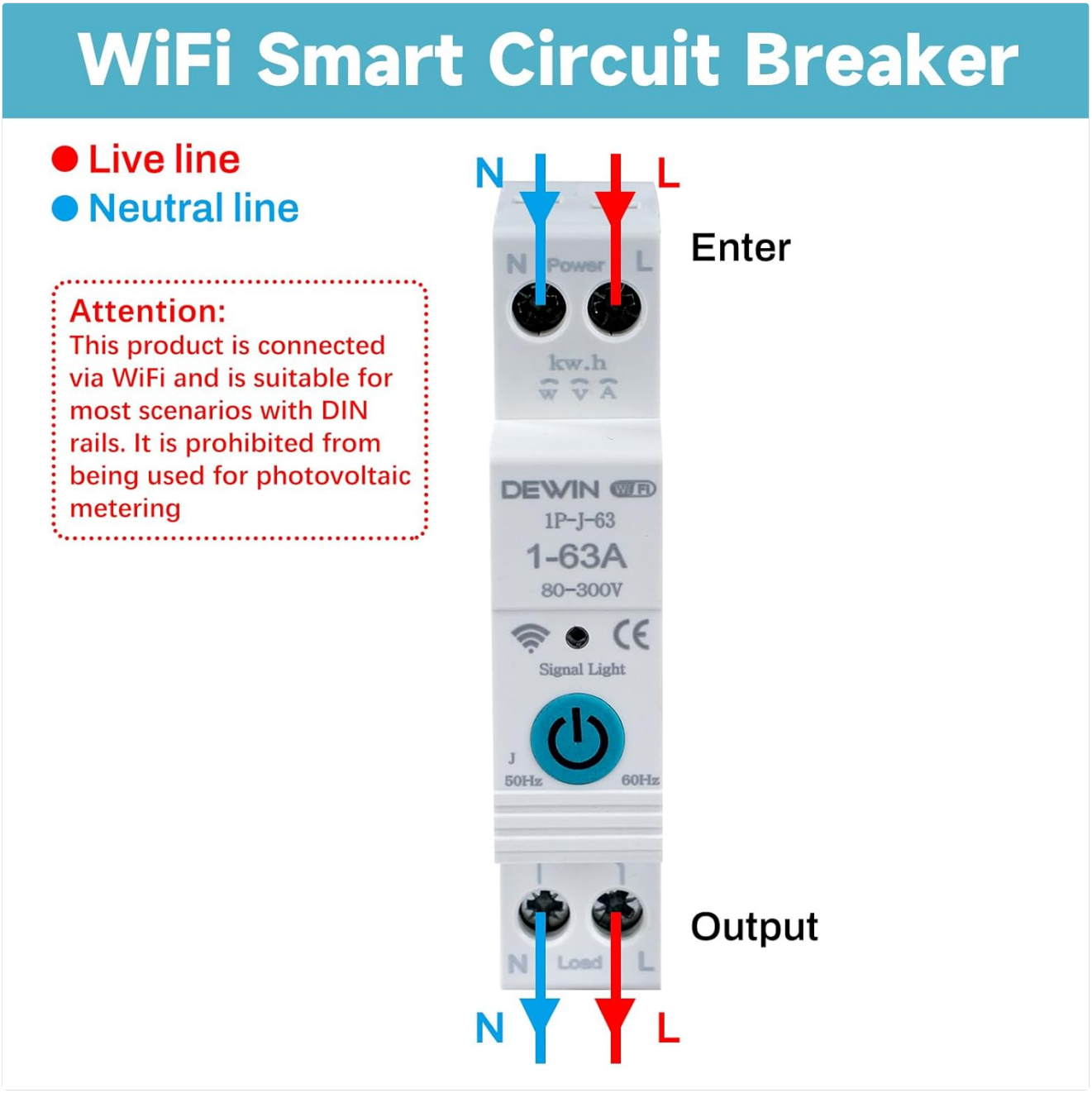

Figure 3: Wiring Diagram. This diagram clearly labels the Live (red) and Neutral (blue) lines for both input (Enter) and output (Output) connections on the DEWIN Smart WiFi Circuit Breaker.

6. Setup and App Connection

To utilize the smart features of your DEWIN Circuit Breaker, you need to connect it to your home WiFi network and the Tuya Smart App.

6.1 App Download and Account Creation

1. Download the "Tuya Smart" or "Smart Life" app from your smartphone's app store (iOS or Android).
2. Register for a new account or log in if you already have one.

6.2 Device Pairing

1. Ensure your circuit breaker is powered on and within range of your 2.4GHz WiFi network.
2. Open the Tuya Smart App and tap the "+" icon to add a new device.
3. Follow the in-app instructions to put the device into pairing mode. The WiFi signal light on the device will indicate its status:
    - **Fast Red Flash:** WiFi searching (ready for pairing).
    - **Slow Red Flash:** WiFi not connected.
    - **Solid Red:** Stable WiFi connection.
4. Once the device is detected, confirm the connection and rename it for easy identification.

Figure 4: WiFi and Power Indicator Lights. This image details the meaning of the WiFi signal light's different flashing patterns and the power button's color (Green for ON, Red for OFF).

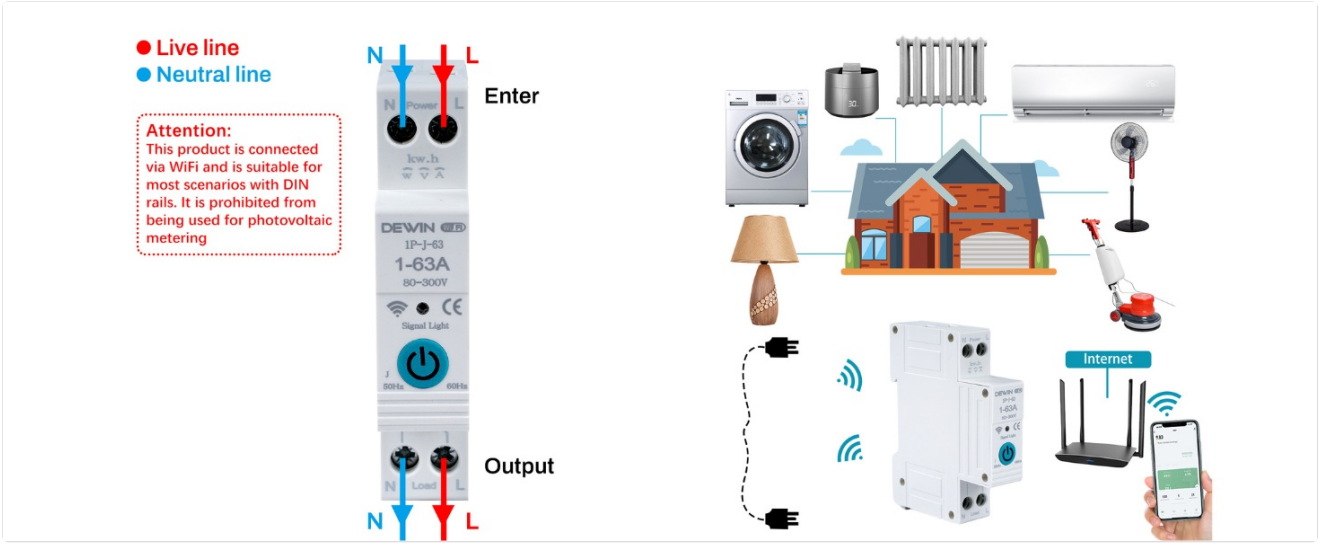

Figure 5: System Integration Overview. This diagram illustrates how the circuit breaker connects to your home network via WiFi and is controlled through the mobile app, enabling smart control of connected appliances.

7. Operating Instructions

Once connected, you can control and monitor your DEWIN Smart WiFi Circuit Breaker using the Tuya Smart App.

7.1 Remote Control

- Open the Tuya Smart App and select your circuit breaker from the device list.
- Use the ON/OFF toggle switch within the app to remotely control the power supply to the connected load.
- The app also allows you to view real-time operational data such as current, voltage, power, and total energy consumption.

Figure 6: Remote Control Functionality. This image illustrates the convenience of controlling your home's power supply remotely using the Tuya Smart App on your smartphone, even when you are away.

7.2 Timing Functions

The app provides flexible timing options to automate your electrical devices:

- **Scheduled Timing:** Set specific times for the circuit breaker to turn ON or OFF. For example, turn on lights at 6:30 PM before returning home from work.
- **Countdown Mode:** Set a countdown timer after which the device will switch its state (ON to OFF, or OFF to ON). For example, turn on a light after 10 minutes.
- **Cycle Timing:** Program recurring ON/OFF schedules. For example, turn on illumination at 6:00 AM and turn off the clock light at 8:00 AM daily.

Figure 7: Timing Modes. This image visually explains the three distinct timing functionalities: Scheduled Timing, Countdown Mode, and Cycle Timing, offering versatile automation options.

8. Maintenance

The DEWIN Smart WiFi Circuit Breaker requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Periodically wipe the device with a dry, soft cloth to remove dust. Do not use liquid cleaners or solvents.
- **Inspection:** Regularly inspect the wiring connections to ensure they remain secure. Check for any signs of damage or overheating.
- **Firmware Updates:** Keep the Tuya Smart App updated to ensure you have the latest features and security enhancements for your device.

9. Troubleshooting

If you encounter issues with your DEWIN Smart WiFi Circuit Breaker, refer to the following troubleshooting tips:

9.1 Device Not Connecting to WiFi

- **Check WiFi Signal:** Ensure the device is within range of your 2.4GHz WiFi router. The device does not support 5GHz WiFi networks.
- **Router Settings:** Verify that your router's 2.4GHz band is enabled and that there are no MAC address filtering or other security settings preventing new connections.
- **Re-enter Pairing Mode:** Follow the app's instructions to put the device back into pairing mode (fast red flash).
- **Router Reboot:** Sometimes, rebooting your WiFi router can resolve connectivity issues.

9.2 Remote Control Not Responding

- **Internet Connection:** Ensure your smartphone has an active internet connection.
- **Device Online:** Check the app to confirm the circuit breaker is showing as "Online." If not, refer to the WiFi connection troubleshooting steps.
- **App Update:** Ensure your Tuya Smart App is updated to the latest version.

9.3 Inaccurate Energy Monitoring

- **Wiring Check:** Verify that the wiring is correctly installed according to the diagram in Section 5.2. Incorrect wiring can lead to inaccurate readings.
- **Device Limits:** Ensure the connected load does not exceed the device's maximum current rating of 63A.

10. Warranty and Support

DEWIN products are manufactured to high-quality standards. For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your retailer.

If you require technical assistance or have questions not covered in this manual, please contact DEWIN customer support through the official website or your purchase platform. When contacting support, please provide your product model number (QBRYYBRCA-GS110472Z) and a detailed description of the issue.