Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

DEWIN IYBRBCBDX-GS109771

DEWIN Tuya WiFi Smart Circuit Breaker User Manual

Model: IYBRBCBDX-GS109771

1. Introduction

The DEWIN Tuya WiFi Smart Circuit Breaker is an advanced device designed to integrate seamlessly with smart home systems via WiFi. It offers precise power metering and remote control capabilities, making it suitable for a wide range of applications including power metering systems, schools, markets, household appliances, industrial settings, and laboratories.

This manual provides comprehensive instructions for the installation, operation, and maintenance of your smart circuit breaker, ensuring safe and efficient use.

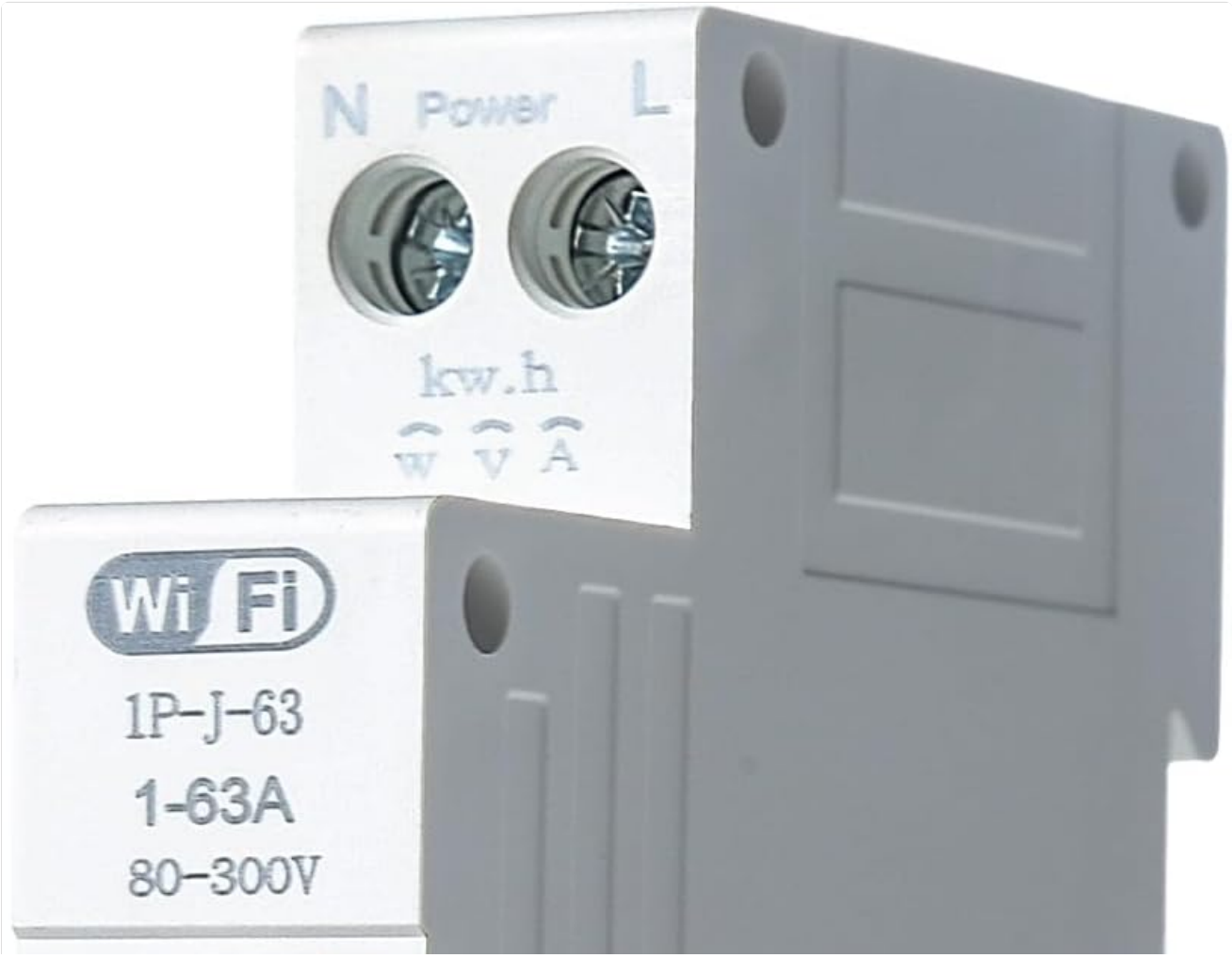




Figure 1.1: Front view of the DEWIN Tuya WiFi Smart Circuit Breaker, showing the WiFi indicator, signal light, and power button.

2. Key Features

- **Smart Connectivity:** Connects and interacts with smart systems via 2.4GHz WiFi for remote management.
- **Accurate Power Metering:** Utilizes high-performance chips and large-scale integrated circuits for precise energy measurement, with an error rate controlled within 0.3%.
- **Easy Installation:** Designed for universal DIN35mm standard guide rail installation, requiring no screws for quick and convenient setup.
- **Remote Control & Timing:** Control the device remotely via the Tuya Smart App. Set single timing, cycle timing, and countdown timing to automate power switching for various scenarios.
- **Real-time Monitoring:** View essential data such as total electricity consumption, current, voltage, and power directly from your mobile phone, allowing for real-time monitoring of load equipment status.
- **Protection Functions:** Includes overvoltage, undervoltage, overload, and short-circuit protection to ensure safety and device longevity.
- **Durable Construction:** Features a PC flame retardant material shell, offering high temperature resistance and

improved efficiency.



Figure 2.1: Overview of key features including Timing Mode, Countdown Mode, Overload-short circuit Protection, and Overvoltage-undervoltage Protection.

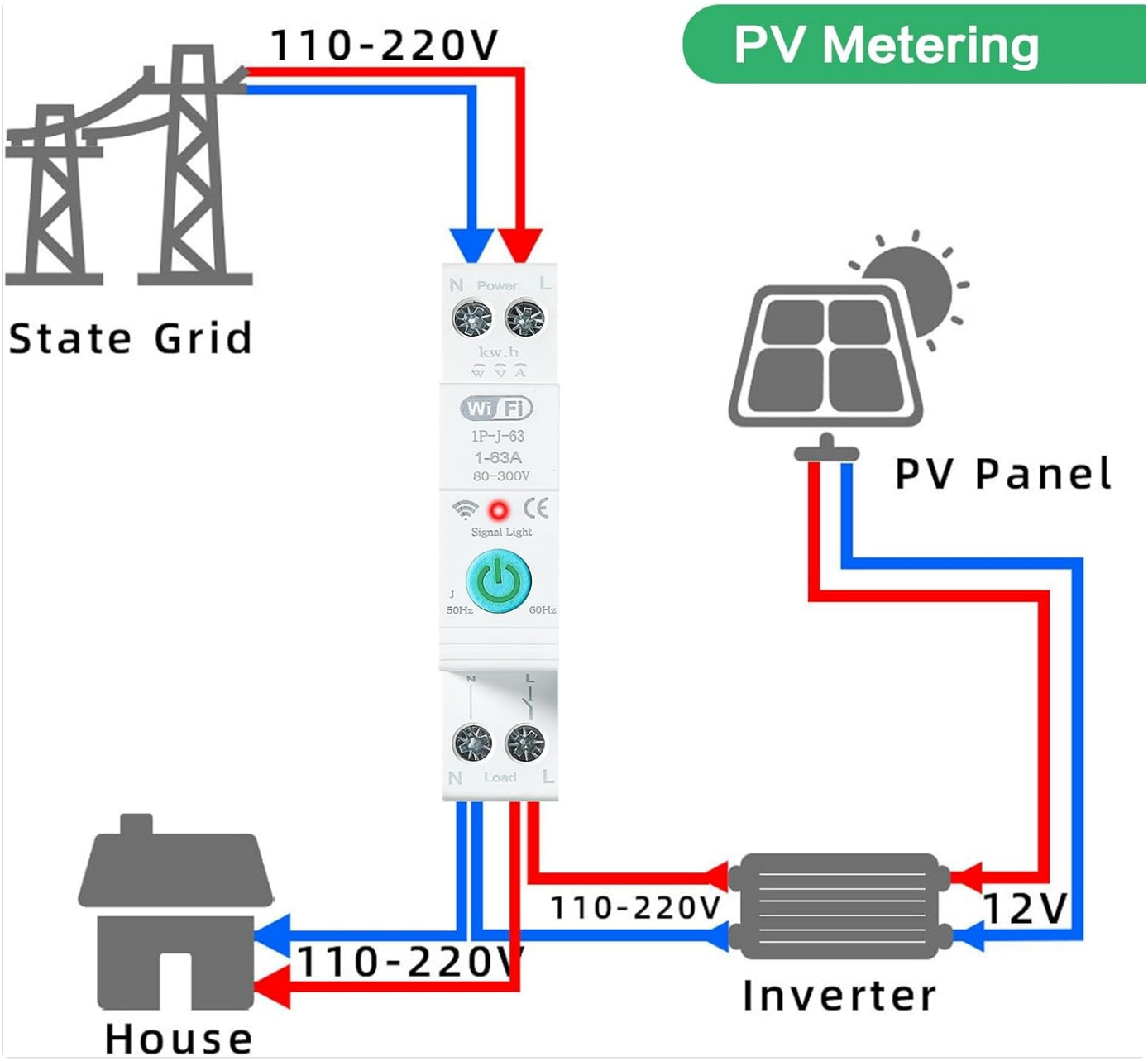


Figure 2.2: Close-up showing the stylish touch button, easy-to-use guide rail positioning buckle, and the PC flame retardant shell material.

3. Specifications

Parameter	Value
Product Name	Tuya WIFI Smart Circuit Breaker
Connection Platform	Tuya Smart App
Material	PC Flame Retardant Material
Rated Voltage	230VAC
Working Voltage Range	80-400VAC (Single Phase)
Current	1-63A
Rated Frequency	50/60Hz

Parameter	Value
Overvoltage Setting Range (>U)	120-300V
Undervoltage Setting Range (<U)	80-210V
WiFi Frequency	2.4GHZ
Installation Method	DIN Rail 35mm
Certification	CE Certification
Product Size	8.7 x 5 x 1.9 cm
Environmental Temperature Range	-30°C to 70°C
Item Weight	111 g
Number of Poles	1

4. Installation and Setup

4.1 Physical Installation

The DEWIN Tuya WiFi Smart Circuit Breaker is designed for easy installation on a standard DIN35mm guide rail. No screws are required for mounting.

1. Ensure the main power supply is turned off before beginning installation to prevent electrical shock.
2. Locate a suitable position on your DIN rail.
3. Press the guide rail positioning buckle on the circuit breaker (refer to Figure 2.2) and firmly attach it to the DIN rail until it clicks into place.
4. Connect the power input (L and N) to the top terminals and the load output (L and N) to the bottom terminals as indicated on the device. Ensure all connections are secure.

4.2 App Installation and Device Pairing

To utilize the smart features, you need to install the Tuya Smart App on your mobile device and pair the circuit breaker.

1. Download the **Tuya Smart App** from your mobile device's app store (App Store for iOS or Google Play Store for Android).
2. Register or log in to your Tuya Smart account.
3. Ensure your mobile device is connected to a 2.4GHz WiFi network. The circuit breaker only supports 2.4GHz WiFi.
4. Power on the circuit breaker. The WiFi signal light on the device will blink, indicating it is waiting for a connection (refer to Figure 4.1).
5. In the Tuya Smart App, tap the "+" icon in the top right corner to add a device.
6. Select "Electrical" or "Circuit Breaker" from the device list.
7. Follow the on-screen instructions in the app to complete the pairing process. This typically involves confirming the blinking indicator and entering your WiFi password.
8. Once successfully connected, the WiFi signal light on the circuit breaker will become steady.



Figure 4.1: Illustration of the smart circuit breaker's connectivity with a WiFi router and smartphone for remote control.



Figure 4.2: Status indicators: WiFi light (Steady = Connection successful, Blinking = Waiting for connection) and Switch light (Red = OFF, Green = ON).

5. Operating Instructions

5.1 Manual Operation

The circuit breaker can be manually switched ON/OFF using the physical button on the device. The switch light (Figure 4.2) will indicate its status: Green for ON, Red for OFF.

5.2 Remote Control via Tuya Smart App

Once paired, you can control and monitor the circuit breaker from anywhere using the Tuya Smart App.

- **Remote ON/OFF:** Tap the power icon in the app interface to switch the circuit breaker on or off.
- **Timing Modes:**
  - **Single Timing:** Set a specific time for the device to turn on or off once.
  - **Cycle Timing:** Schedule recurring ON/OFF times for daily or weekly routines.

    - **Countdown Mode:** Set a countdown timer for the device to switch off after a specified duration.

- **Energy Monitoring:** Access real-time data on total electricity consumption, current, voltage, and power. This allows you to monitor the energy usage of connected appliances.
- **Protection Settings:** Configure overvoltage and undervoltage protection thresholds within the app to safeguard your appliances.



Figure 5.1: Examples of timing functions available in the Tuya Smart App, including Timing Mode, Countdown Mode, and Loop Timing.



Figure 5.2: Remote control capability allows users to manage power from anywhere, including checking if devices were left on.

6. Applications

The DEWIN Tuya WiFi Smart Circuit Breaker is versatile and can be used in various environments due to its smart features and DIN rail compatibility.

- **Residential Use:** Control household appliances, lighting, and monitor home energy consumption.
- **Commercial & Industrial:** Ideal for power metering systems in schools, markets, and industrial facilities.
- **Laboratory Settings:** Precise control and monitoring for experimental setups.
- **PV Metering:** Can be integrated into solar panel systems for monitoring energy flow.

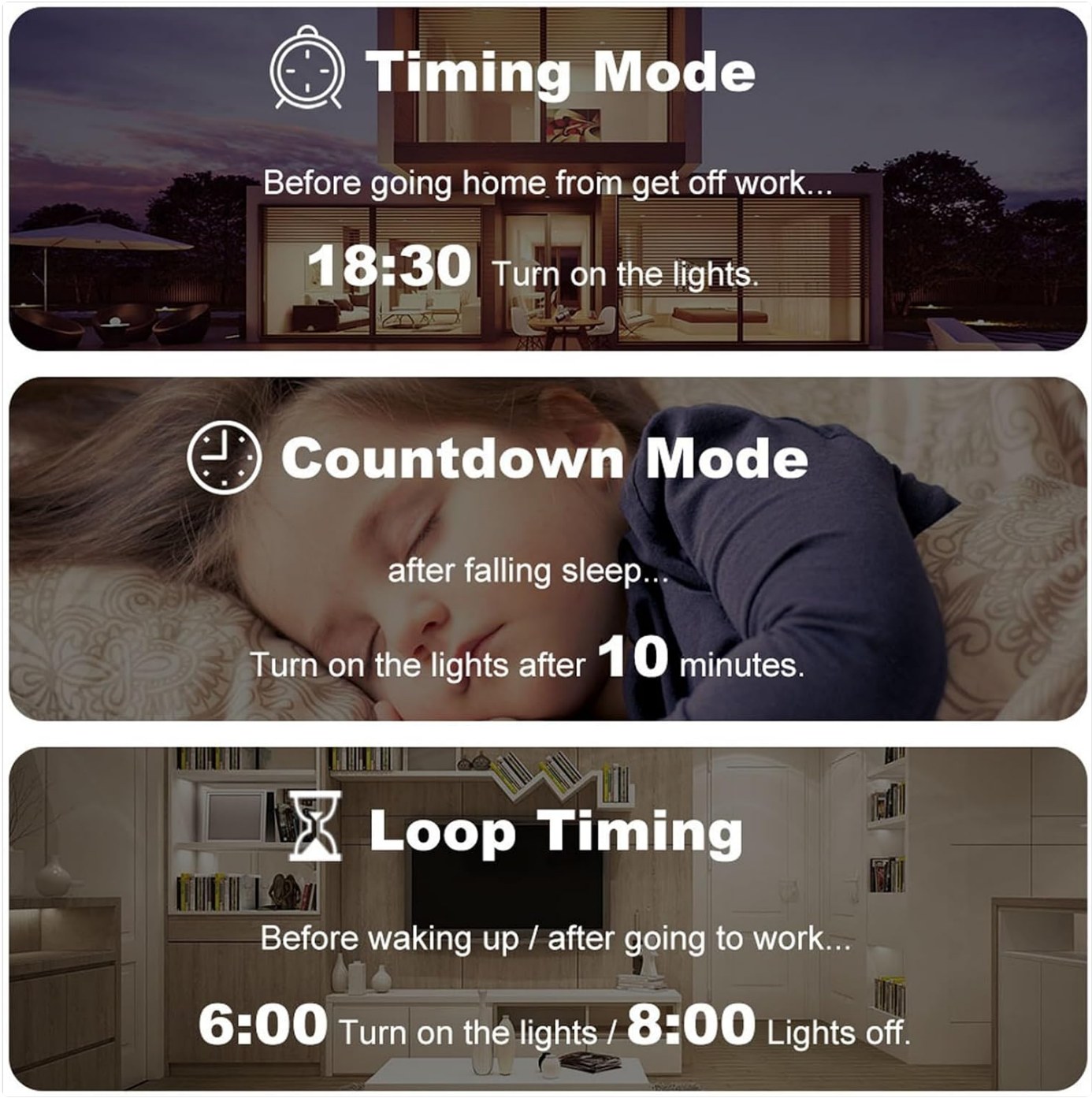


Figure 6.1: Wide range of applications for the smart circuit breaker, including electric power metering systems, schools, markets, household appliances, industry, and laboratories.



Figure 6.2: Example of PV Metering application, showing the circuit breaker's role in managing power from solar panels to the grid and household.

7. Maintenance and Safety

7.1 General Maintenance

- Keep the device clean and free from dust. Use a dry, soft cloth for cleaning.
- Do not use abrasive cleaners or solvents.
- Ensure proper ventilation around the device to prevent overheating.
- Regularly check electrical connections for tightness and signs of wear.

7.2 Safety Precautions

- **Always disconnect the main power supply before installing, removing, or performing any maintenance on the circuit breaker.**

- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Do not operate the device if it is damaged or malfunctioning.
- Do not expose the device to water or extreme humidity.
- Ensure the device is used within its specified voltage and current ratings.

8. Troubleshooting

If you encounter issues with your DEWIN Tuya WiFi Smart Circuit Breaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device not powering on.	No power supply; incorrect wiring.	Check main power supply. Verify wiring connections are correct and secure.
WiFi signal light blinking continuously.	Not connected to WiFi; incorrect WiFi password; 5GHz WiFi network.	Ensure your router is broadcasting a 2.4GHz WiFi signal. Re-enter WiFi password in the Tuya Smart App. Move device closer to router.
Cannot control via Tuya Smart App.	No internet connection; app issue; device offline.	Check your phone's internet connection. Restart the Tuya Smart App. Verify the circuit breaker's WiFi light is steady. Re-pair the device if necessary.
Device trips frequently.	Overload; short circuit; overvoltage/undervoltage.	Reduce load on the circuit. Check for short circuits in connected appliances. Verify input voltage is within specified range (80-400VAC).

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact DEWIN customer service through the official channels. Ensure you have your product model number (IYBRBCBDX-GS109771) and purchase details ready when contacting support.

DEWIN Customer Service: Please visit the DEWIN store on Amazon or their official website for contact details.

Online Resources: For the latest updates, FAQs, and additional support, please visit the Tuya Smart App support section or the DEWIN official website.

© 2024 DEWIN. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0CRRNJNBY

More documents and user manuals: **https://manuals.plus/**