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› Jadeshay Smart WiFi Circuit Breaker with Energy Meter (Model 1P-J-63) User Manual

Jadeshay 1P-J-63

Jadeshay Smart WiFi Circuit Breaker with Energy Meter (Model 1P-J-63) User Manual

Your guide to smart energy management and control.

1. PRODUCT OVERVIEW

The Jadeshay Smart WiFi Circuit Breaker (Model 1P-J-63) is an intelligent device designed to integrate with smart home systems via WiFi. It provides remote control capabilities, real-time energy consumption monitoring, and various timing functions. This device is suitable for a wide range of applications, including power measurement systems, residential use, and industrial settings.



Figure 1: Jadeshay Smart WiFi Circuit Breaker shown alongside a smartphone displaying its energy monitoring application.

Key Features:

- **Remote Control:** Manage your electrical devices from anywhere using the Tuya Smart or Smart Life mobile application.
- **Energy Monitoring:** Track total electricity consumption, current, voltage, and power in real-time.
- **Timing Modes:** Utilize single timer, cycle timer, and countdown functions to automate device operation.
- **Voice Control:** Compatible with voice assistants like Amazon Alexa and Google Assistant for hands-free operation.
- **Over/Under Voltage Protection:** Configurable voltage protection settings to safeguard connected appliances.
- **Durable Construction:** Housed in a flame-retardant PC material for enhanced safety and longevity.
- **Easy Installation:** Designed for standard 35mm DIN rail mounting.

WIFI CIRCUIT BREAKER RAIL

MODEL 1P-J-63

Wifi Circuit Breaker Is A Circuit Breaker Device That Connects And Interacts With Smart Systems Via Wifi.



Figure 2: Overview of the circuit breaker's primary functions, including timing, voltage protection, circuit disconnection, and measurement capabilities.

2. SAFETY INFORMATION

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

- **Professional Installation Recommended:** Electrical installation should be performed by a qualified electrician in accordance with local electrical codes and regulations.
- **Power Disconnection:** Always disconnect power at the main circuit breaker before performing any installation, wiring, or maintenance on the device.
- **Voltage Compatibility:** Ensure the device's rated voltage (230V AC) matches your electrical system.
- **Indoor Use Only:** This device is designed for indoor use in dry environments. Do not expose to moisture or extreme temperatures.
- **Proper Wiring:** Ensure all wire connections are secure and correctly terminated to prevent loose connections and overheating.

- **Overload Protection:** Do not exceed the maximum rated current of 63A.

3. PRODUCT SPECIFICATIONS

Specification	Value
Product Name	Tuya WIFI Smart Circuit Breaker
Model Number	CJCUAAFIU-AGS109771 (1P-J-63)
Connection Platform	Tuya Smart App
Material	Flame-retardant Polycarbonate (PC)
Rated Voltage	230V AC
Operating Voltage Range	80-400 VAC (Single-phase)
Rated Current	1-63 A
Rated Frequency	50/60 Hz
Overvoltage Setting Range	120-300 V
Undervoltage Setting Range	80-210 V
WiFi Frequency	2.4 GHz
Installation Method	35mm DIN Rail
Certification	CE
Product Dimensions (L x W x H)	1.9 x 8.7 x 1.9 cm
Ambient Temperature Range	-30 °C to 70 °C
Number of Poles	1

4. INSTALLATION

The Jadeshay Smart WiFi Circuit Breaker is designed for easy installation on a standard 35mm DIN rail. Please ensure all power is disconnected before proceeding with installation.

Installation Steps:

1. **Power Off:** Turn off the main power supply at your electrical panel to prevent electric shock.
2. **Mounting:** Securely attach the circuit breaker onto a 35mm DIN rail within your electrical distribution box.
3. **Wiring:**
 - Connect the incoming Live (L) wire to the 'L' terminal on the 'Power' side of the circuit breaker.
 - Connect the incoming Neutral (N) wire to the 'N' terminal on the 'Power' side of the circuit breaker.

- Connect the outgoing Live (L) wire to the 'L' terminal on the 'Load' side of the circuit breaker.
 - Connect the outgoing Neutral (N) wire to the 'N' terminal on the 'Load' side of the circuit breaker.
4. **Secure Connections:** Ensure all wire connections are tight and secure to prevent loose contacts and potential hazards.
 5. **Power On:** Once installation and wiring are complete and verified, restore power to the electrical panel. The device's signal light should illuminate.



Figure 3: Detailed view of the circuit breaker's terminals, indicating connections for incoming power and outgoing load.

5. INITIAL SETUP AND APP CONNECTION

To utilize the smart features of your circuit breaker, you need to connect it to a mobile application.

App Download and Registration:

1. Download the **Tuya Smart** or **Smart Life** app from your smartphone's app store (Google Play Store for Android or Apple App Store for iOS).

2. Register for a new account or log in if you already have one.

Device Pairing:

1. Ensure your smartphone is connected to a 2.4 GHz WiFi network. The circuit breaker only supports 2.4 GHz WiFi.
2. Open the Tuya Smart or Smart Life app.
3. Tap the '+' icon in the top right corner to add a device.
4. Select 'Electrical Engineering' or 'Circuit Breaker (Wi-Fi)' from the device list.
5. Follow the on-screen instructions to put the device into pairing mode (usually by pressing and holding the button on the circuit breaker until the signal light blinks rapidly).
6. Confirm the blinking indicator in the app and enter your WiFi network password.
7. The app will search for and connect to the device. Once connected, you can rename the device for easier identification.

YOU CAN TURN ON TURN OFF ANY ELECTRIC DEVICE BY

 TUYA Smart

 Smart Life



Figure 4: The Tuya Smart and Smart Life applications provide remote control functionality for connected electrical devices.

6. OPERATING INSTRUCTIONS

Once connected to the app, you can access various functions of your Smart WiFi Circuit Breaker.

Remote Control:

From the device interface in the Tuya Smart or Smart Life app, you can instantly turn the connected circuit ON or OFF from anywhere with an internet connection.

Energy Monitoring:

The app provides real-time data on your electricity consumption. You can view:

- Total forward energy (kWh)
- Current (A)
- Voltage (V)
- Power (W)

This allows you to monitor and manage your household's energy usage effectively.

INTELLIGENT MULTI-FUNCTIONAL PROTECTION

24H
Real Time Monitoring

APP
Remote Control

Metering

Operation Panel

0.00
Total forward energy
0.00 kWh
02:00-01:00

0 0

227.9 use electricity

0.00
Balance status
Operation Record

ON

Figure 5: The app's interface for intelligent multi-functional protection, showing metering, 24-hour real-time monitoring, and remote control capabilities.

Timing Functions:

The app offers flexible timing options to automate your devices:

- **Timing Mode:** Set specific times for the circuit to turn ON or OFF (e.g., turn on lights before arriving home).
- **Countdown Mode:** Set a countdown timer after which the circuit will change its state (e.g., turn off lights after 10 minutes).
- **Loop Timing:** Schedule repetitive ON/OFF cycles (e.g., turn on lights at 6:00 AM and off at 8:00 AM daily).

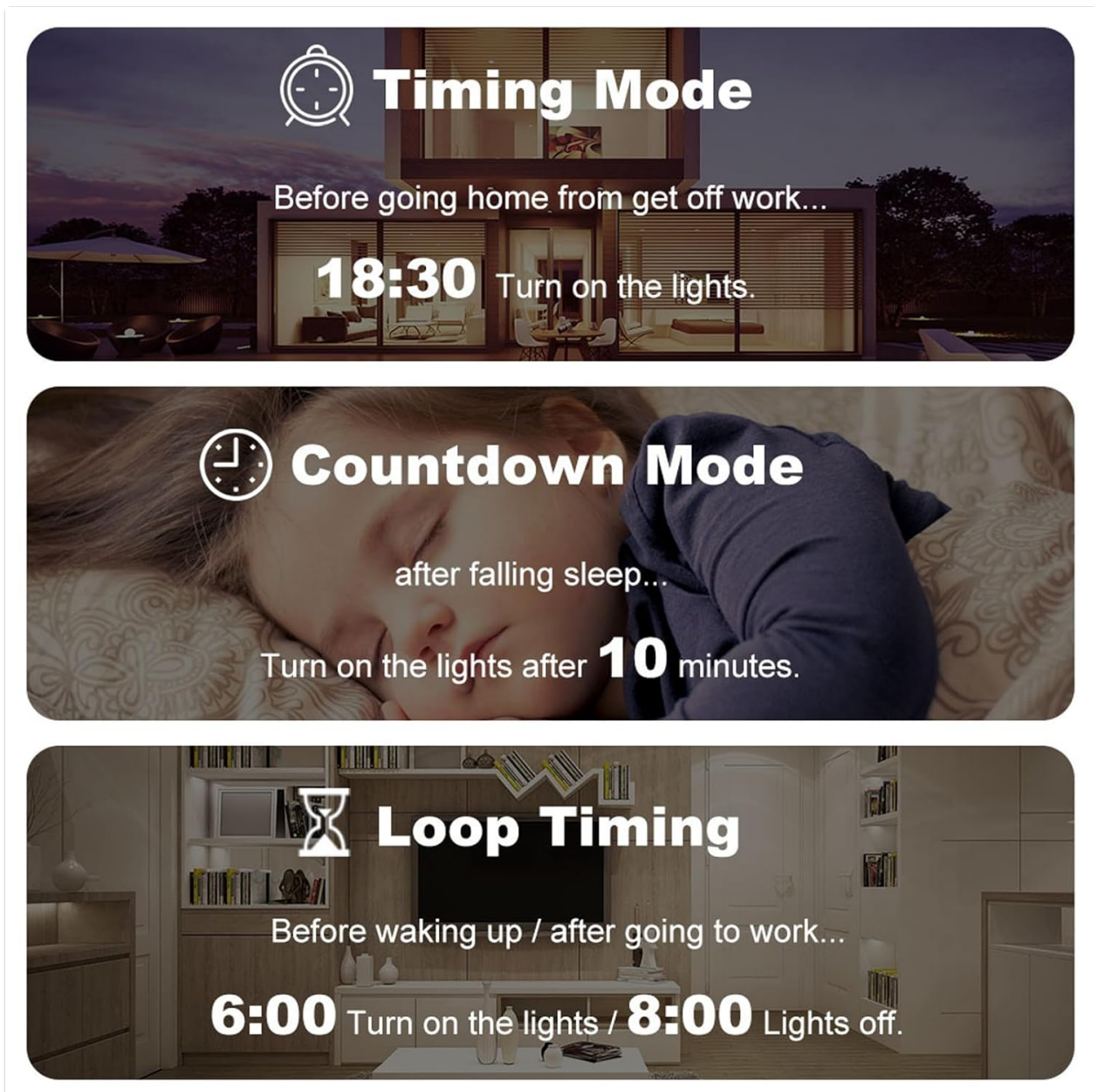


Figure 6: Examples of the various timing modes available through the application, including scheduled, countdown, and loop functions.

Voice Control:

Integrate your circuit breaker with popular voice assistants for convenient control:

1. Link your Tuya Smart or Smart Life account to Amazon Alexa or Google Assistant through their respective apps.
2. Once linked, you can use voice commands such as "Alexa, turn on the living room lights" or "Hey Google, turn off the kitchen circuit."

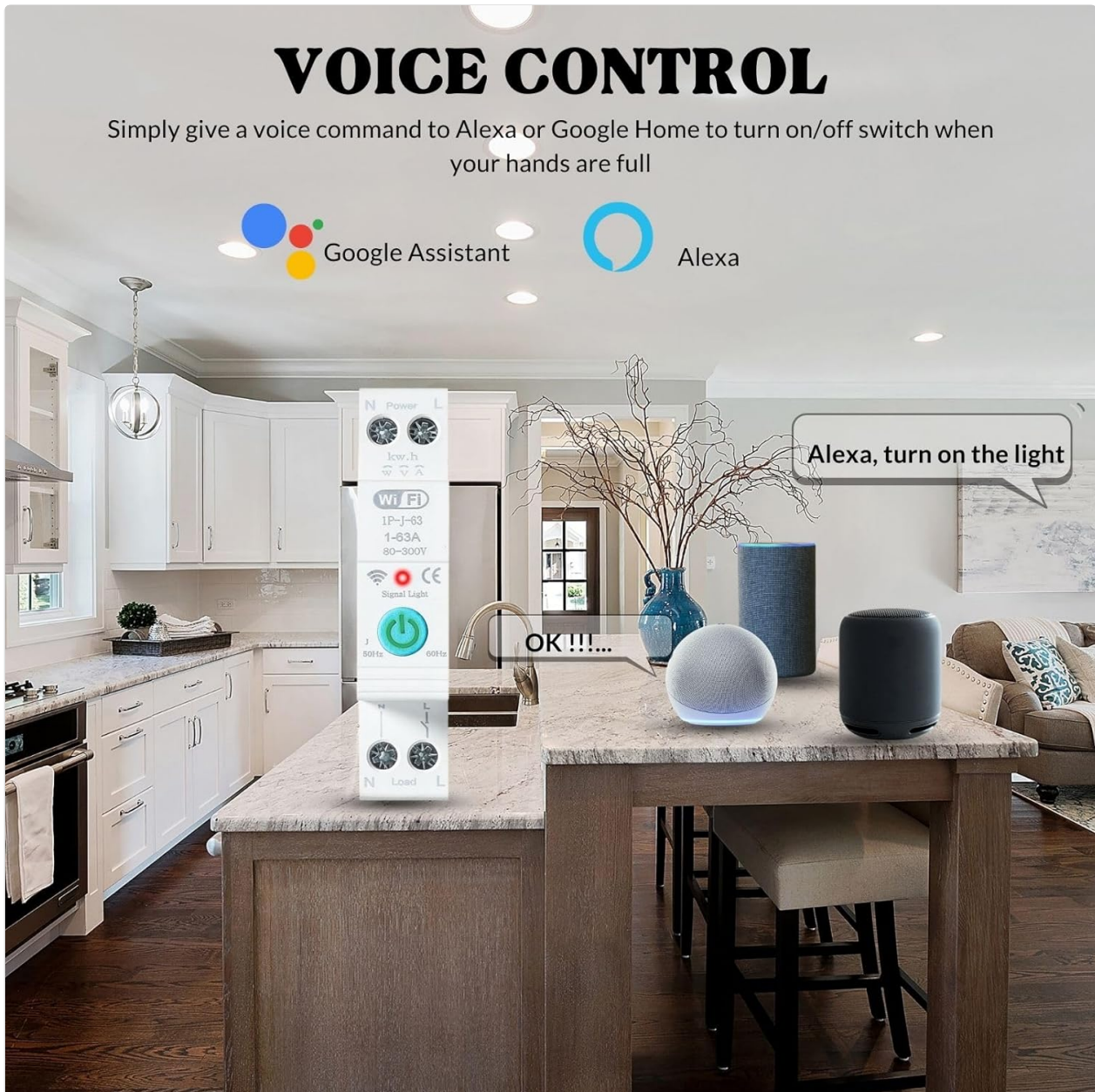


Figure 7: Voice control integration allows for hands-free operation of the smart circuit breaker using Alexa or Google Assistant.

7. ADVANCED FEATURES

Voltage Protection:

The device includes configurable overvoltage and undervoltage protection. You can set the upper and lower voltage limits within the app. If the voltage exceeds or drops below these limits, the circuit breaker will automatically trip to protect connected appliances.

Smart Home Integration:

The Jadeshay Smart WiFi Circuit Breaker can be integrated into broader smart home ecosystems, allowing it

to interact with other smart devices and create automated scenarios (e.g., turning off specific circuits when you leave home).



Figure 8: The circuit breaker's role in a connected smart home environment, enabling control over various appliances and systems.

8. MAINTENANCE

To ensure optimal performance and longevity of your Jadeshay Smart WiFi Circuit Breaker, follow these simple maintenance guidelines:

- **Regular Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Dust Removal:** Ensure the area around the circuit breaker is free from excessive dust and debris, which can impede ventilation.
- **Connection Check:** Annually, or if you suspect an issue, have a qualified electrician check the wiring connections for tightness and signs of wear. Always disconnect power before inspection.
- **Firmware Updates:** Keep the device's firmware updated through the Tuya Smart or Smart Life app to

benefit from the latest features and security enhancements.

9. TROUBLESHOOTING

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

- **Device Not Powering On:**
 - Check if the main power supply to the circuit breaker is active.
 - Verify that the wiring connections are correct and secure.
- **Cannot Connect to WiFi:**
 - Ensure your WiFi network is 2.4 GHz. The device does not support 5 GHz networks.
 - Check if your router is within range and functioning correctly.
 - Restart the circuit breaker and your router, then attempt pairing again.
 - Confirm the WiFi password entered in the app is correct.
- **Device Offline in App:**
 - Check your internet connection.
 - Verify the circuit breaker has power.
 - If the issue persists, try re-pairing the device with the app.
- **Circuit Breaker Trips Unexpectedly:**
 - Check for an overload condition on the connected circuit.
 - Review the overvoltage/undervoltage protection settings in the app. The device may be tripping due to voltage fluctuations.
 - Consult a qualified electrician to inspect the electrical circuit for faults.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact Jadeshay customer service. Keep your purchase receipt as proof of purchase.

For further assistance, you may also visit the support section of the Tuya Smart or Smart Life application, which often includes FAQs and troubleshooting guides for connected devices.
