

TONGOU WiFi Version

TONGOU Smart Home DIN Rail WiFi Switch (Model: WiFi Version) - User Manual

Brand: TONGOU | Model: WiFi Version

1. INTRODUCTION

The TONGOU Smart Home DIN Rail WiFi Switch is an intelligent device designed to integrate traditional household appliances into a smart home system. This switch offers remote control capabilities via a mobile application, voice control through popular assistants like Amazon Alexa and Google Assistant, and comprehensive energy monitoring features. It also includes various timing functions and multiple protection mechanisms to enhance safety and energy efficiency.

2. SAFETY INFORMATION

Important: This device provides over-current, high power, and high CPU temperature protection. It does **not** include short circuit protection. For complete electrical safety, it is strongly recommended to use this smart switch in conjunction with a standard circuit breaker. All electrical installations should be performed by a qualified electrician and comply with local electrical codes and regulations. Ensure the power supply is disconnected before installation or maintenance.

The device complies with IEC 60947 standard and has FCC certification.

3. PRODUCT OVERVIEW

The TONGOU Smart DIN Rail WiFi Switch is designed for easy integration into standard DIN rail setups. It features a compact design with clear indicators and accessible wiring terminals.

WiFi SMART SWITCH

✓ 2.4GHz Wi-Fi ✗ 5GHz Wi-Fi

REMOTE CONTROL



VOICE CONTROL



OVER-CURRENT PROTECTION



Multi-timing

Schedule/Countdown/
Circulate/Astronomical
(Sunrise/Sunset)



Power Monitoring



High CPU Temperature Protection



Over-voltage Protection

Range:220~265V



Under-voltage Protection

Range: 76~240V (110V N/A)



High Power Protection

Figure 3.1: Overview of TONGOU Smart WiFi Switch features, including remote control, voice control, over-current protection, multi-timing, power monitoring, high CPU temperature protection, over-voltage protection, under-voltage protection, and high power protection.

3.1. Components and Indicators

The device includes a multifunctional button and an LED indicator for status feedback.

Visualization Window



Figure 3.2: Visualization window showing LED indicator states: Flashing Blue (pairing mode), Solid Blue (network connected), Black (network not connected). Also shows the power button for turning the device on/off.

3.2. Dimensions

The switch is designed to fit standard 35mm DIN rails. Its compact size allows for easy installation in electrical panels.

Standard 35mm/1.38in for DIN Rail



Tip: It cannot be installed in a distribution box made solely of metal, as this would block the signal

Figure 3.3: Dimensions of the TONGOU Smart DIN Rail Switch: 82mm (3.23in) height, 18mm (0.71in) width, 50mm (1.97in) depth. Note: It cannot be installed in a distribution box made solely of metal, as this would block the Wi-Fi signal.

4. SPECIFICATIONS

Feature	Specification
Operation Mode	ON-OFF
Current Rating	1 to 63 Amps (Adjustable in app)
Rated Operating Voltage	AC 90-240V, 50/60Hz
Wireless Type	Wi-Fi 2.4GHz
Over-voltage Range	220~265V
Under-voltage Range	76~240V (110V not applicable)

Poles Description	1P+N (N pole cannot be cut off)
Max Wiring Capacity (Power/Load)	10 mm ²
Switch Type	Smart Switch, Latching Relay
Material	Nylon PA66 (Flame-retardant)
Contact Material	Relay Contacts: Silver
Item Dimensions (L x W x H)	3.54 x 0.79 x 3.15 inches (90 x 20 x 80 mm)
Mounting Type	DIN Rail Mount
Controller Type	Amazon Alexa, Google Assistant
Control Method	App, Remote, Voice
Wattage	15120 watts (Max)
Operating Temperature Range	40 to 100 Degrees Celsius
International Protection Rating	IP20
Certifications	CE, FCC

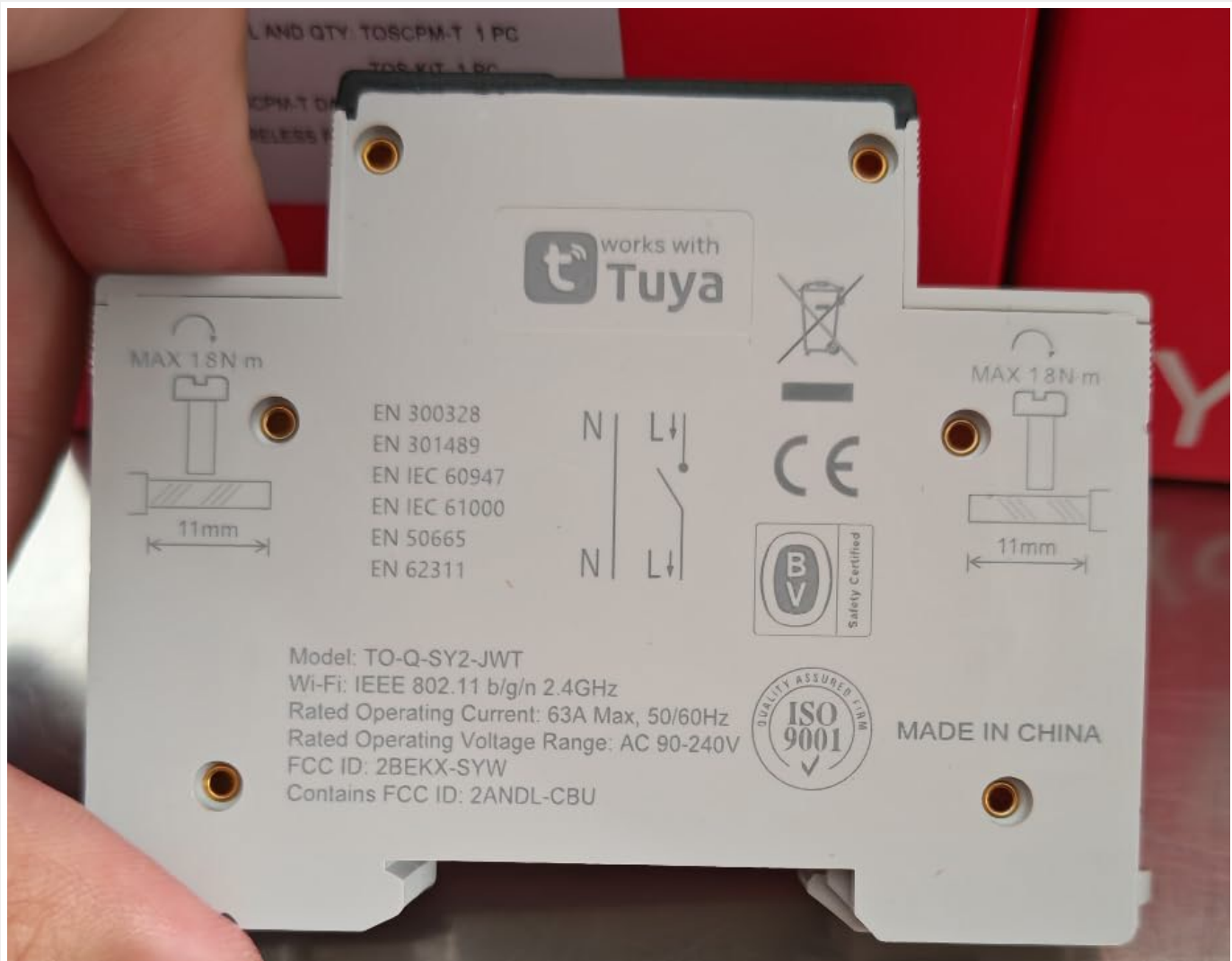


Figure 4.1: Rear view of the TONGOU Smart DIN Rail Switch, showing technical specifications, wiring terminals, and certifications.

5. SETUP

5.1. Physical Installation and Wiring

The TONGOU Smart DIN Rail WiFi Switch is designed for easy installation. Ensure all power is OFF before proceeding with wiring.

1. Mount the switch onto a standard DIN rail.
2. Connect the power supply (Line and Neutral) to the 'Power' terminals (L and N) at the top of the switch.
3. Connect the load (appliance) to the 'Load' terminals (L and N) at the bottom of the switch.
4. Ensure all cables are securely inserted and screws are tightened. The maximum wiring capacity for both power and load sides is 10 mm².

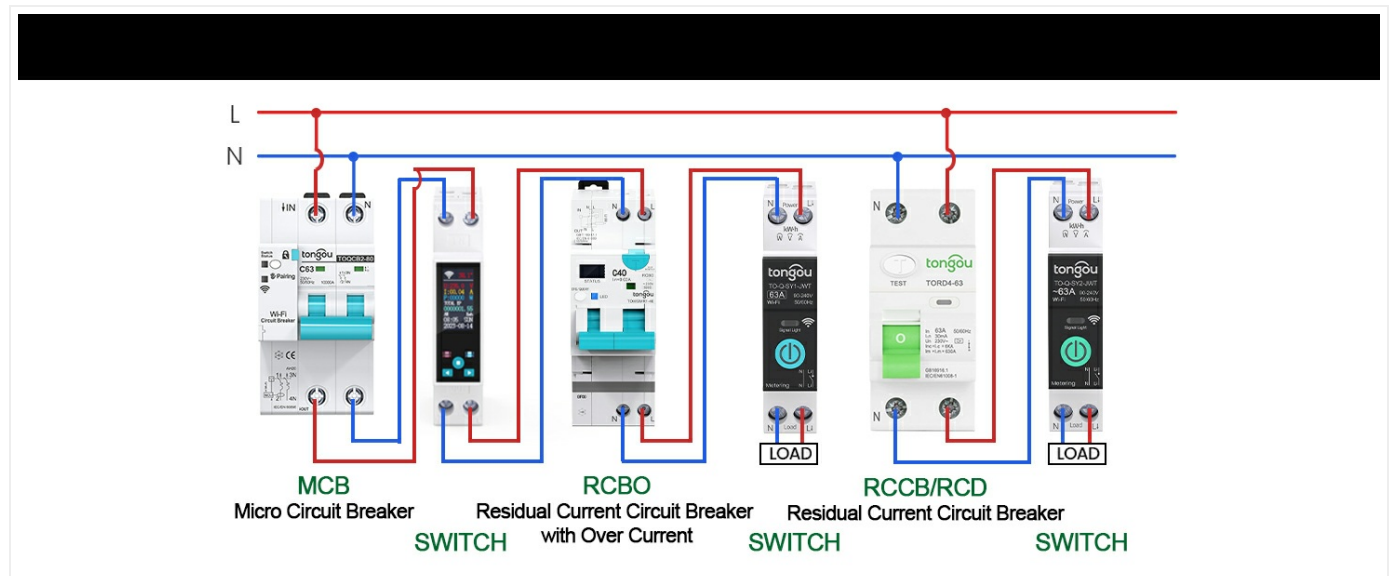


Figure 5.1: Example wiring diagram for the TONGOU Smart DIN Rail Switch, showing connections to a circuit breaker and load. This device is 1P+N, meaning the neutral pole cannot be cut off.

5.2. App Installation and Device Pairing

To control the smart switch, you need to install the 'Smart Life' or 'Tuya' app on your smartphone. The app is available on the App Store (iOS) and Google Play (Android).

1. Download and install the [Smart Life App](#) or Tuya App.
2. Register or log in to your account.
3. Ensure your mobile device is connected to a 2.4GHz Wi-Fi network. The smart switch only supports 2.4GHz Wi-Fi.
4. Press and hold the multifunctional button on the smart switch for 5-10 seconds until the LED indicator flashes quickly. This indicates the device is in pairing mode.
5. In the app, tap 'Add Device' (usually a '+' icon) and follow the on-screen instructions to discover and add the 'WiFi Din Rail Switch'.
6. Enter your Wi-Fi network password when prompted.
7. Once successfully added, the LED indicator on the switch will turn solid blue.

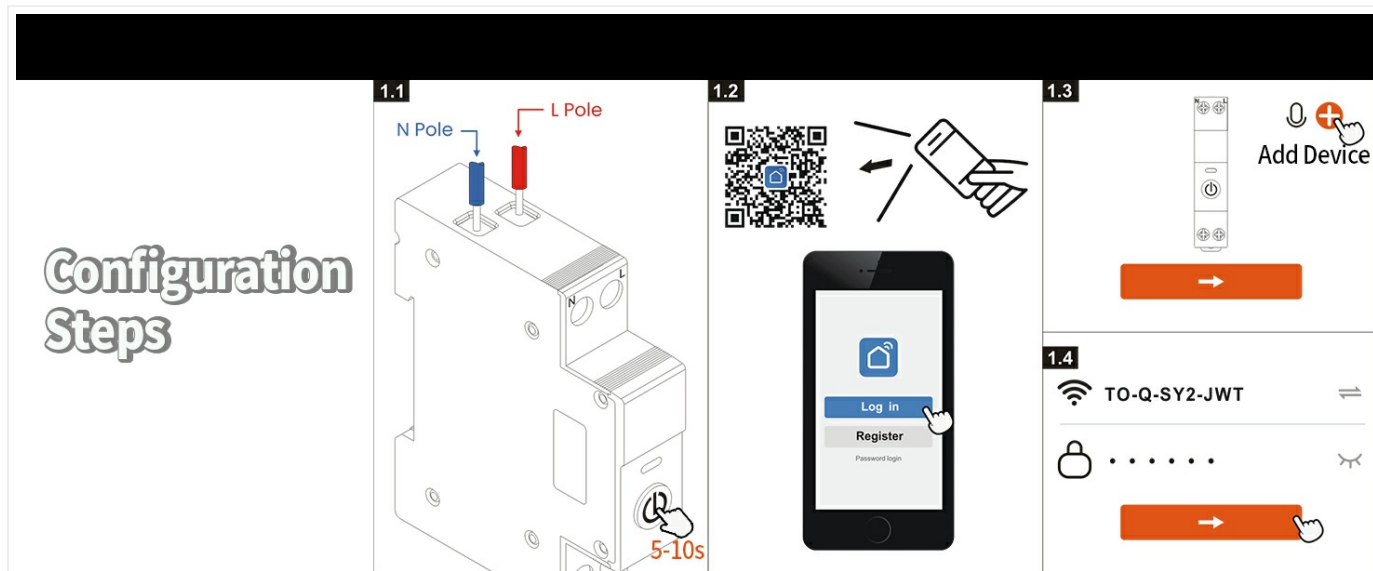


Figure 5.2: Step-by-step guide for connecting the smart switch to the Smart Life/Tuya app, including pressing the button for pairing, scanning QR code (if applicable), and entering Wi-Fi details.

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Video 5.1: Official video demonstrating the network configuration steps for the TONGOU 1P+N Smart Wi-Fi Switch, including mobile app connection and pairing process.

6. OPERATING INSTRUCTIONS

Once the smart switch is successfully paired with the app, you can utilize its various smart features.

6.1. Remote Control via App

Control your connected appliances from anywhere using the Smart Life/Tuya app. Simply tap the switch icon in the app to turn the device ON or OFF.

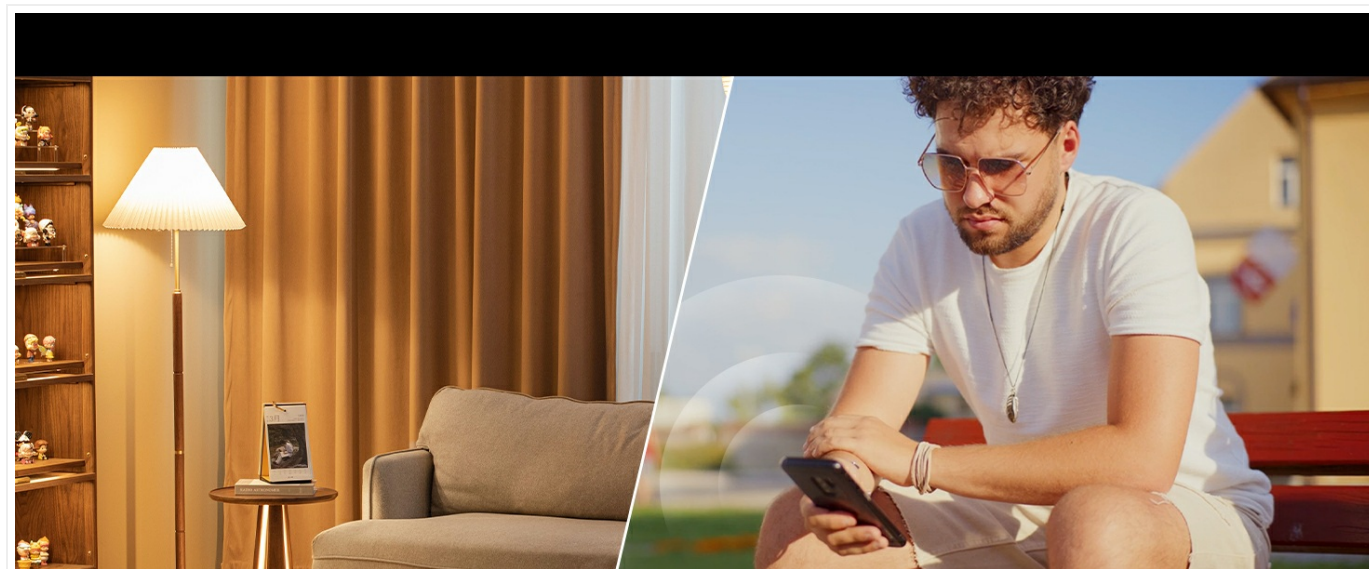


Figure 6.1: Illustration of remote control functionality, allowing users to turn devices on or off through the mobile application.

6.2. Voice Control

The smart switch is compatible with Amazon Alexa and Google Assistant. Link your Smart Life/Tuya account to your voice assistant app to enable voice commands.

- **Example Commands:**

"Alexa, turn off the lights."

"Hey Google, turn on the fan."

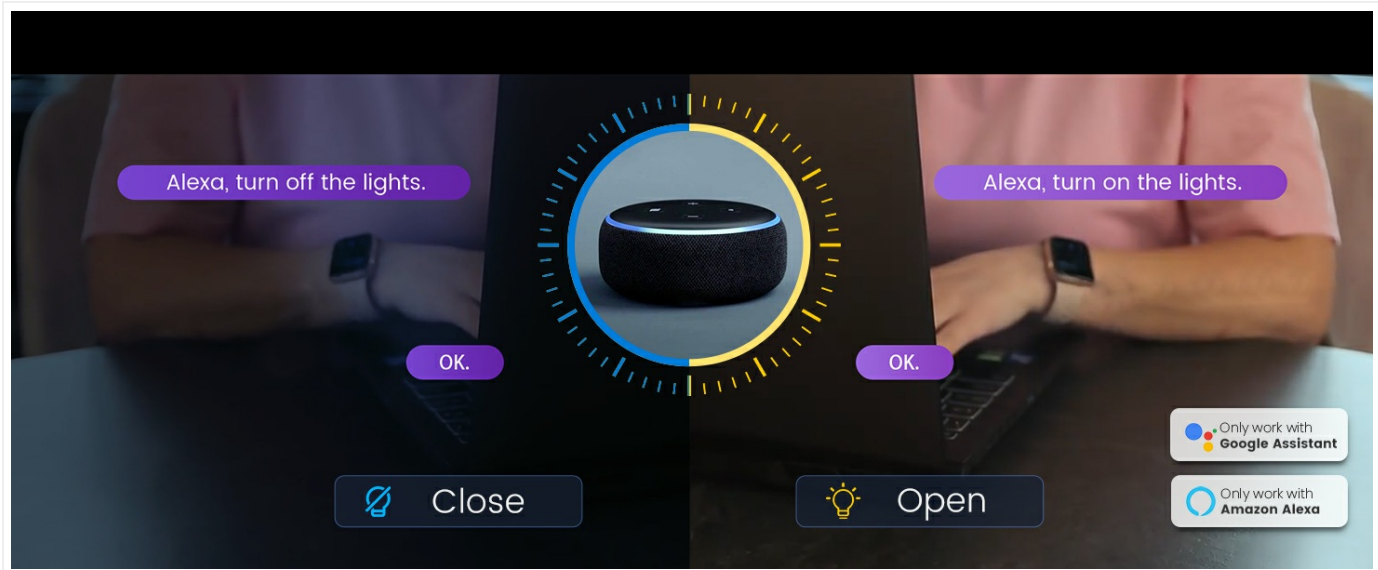


Figure 6.2: Demonstrates voice control capabilities with Amazon Alexa and Google Assistant, allowing hands-free operation of connected devices.

6.3. Power Monitoring

The app provides real-time monitoring of power consumption, load current, load voltage, and load power. You can also view historical electricity consumption data by hour, day, month, and year.

Power Monitoring at All Times

View load current, voltage, power in real time
Record (hour, day, month, year)
electricity consumption in different time periods

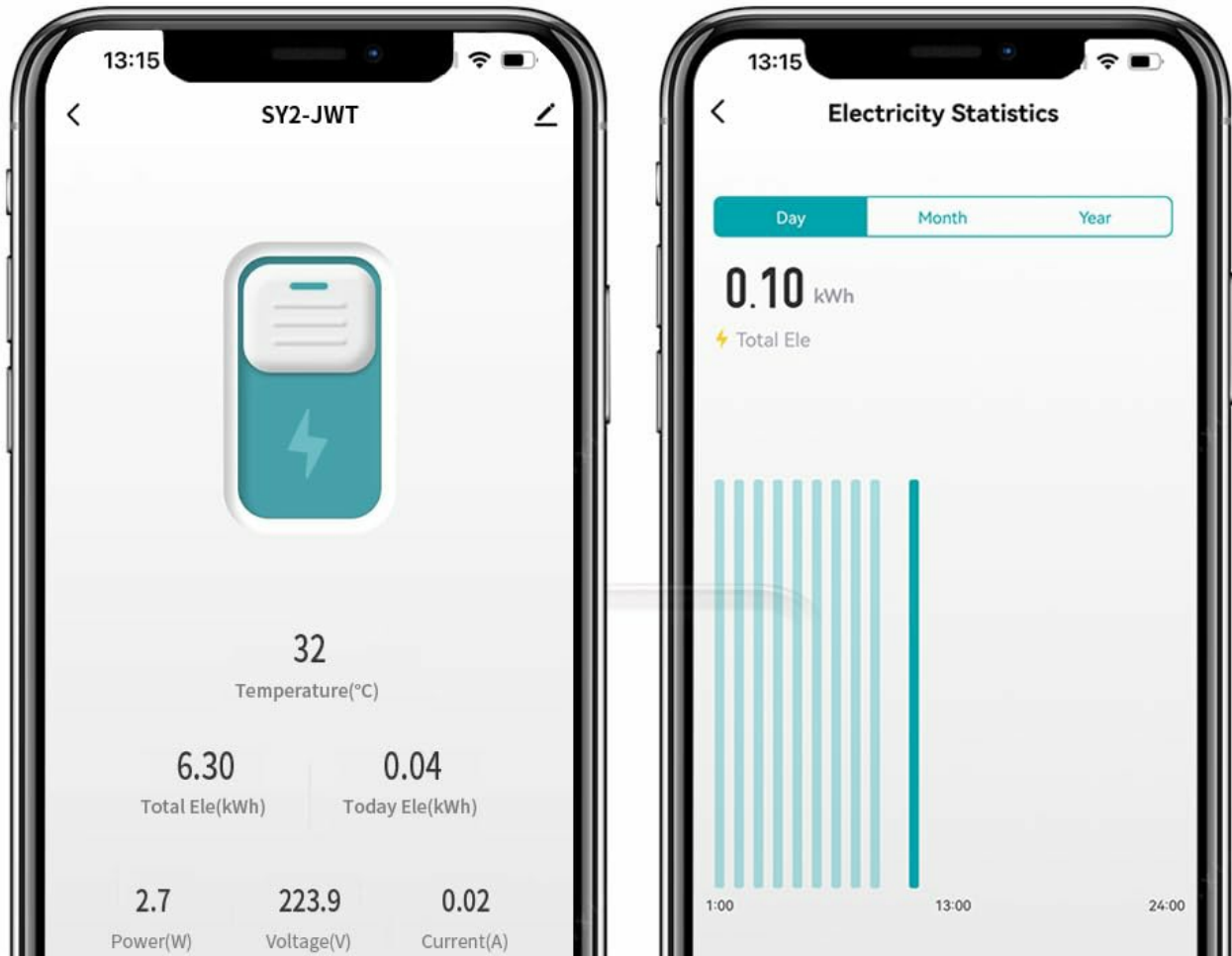


Figure 6.3: App interface showing real-time power data (Power, Voltage, Current) and historical electricity statistics (Total Ele, Today Ele) over different time periods.



Figure 6.4: Another view of the power monitoring feature, displaying electricity statistics over daily, monthly, and yearly periods.

6.4. Timing Functions

The smart switch offers various timing modes to automate your appliances:

- **Schedule:** Set specific ON/OFF times for your devices.
- **Countdown:** Set a timer for the device to turn off after a specified duration.
- **Circulate:** Program the device to turn ON/OFF repeatedly during a set period.
- **Astronomical Timing:** Use sunrise/sunset times to automate device operation.

Multi-timing

Setup the switch on/off time via the APP

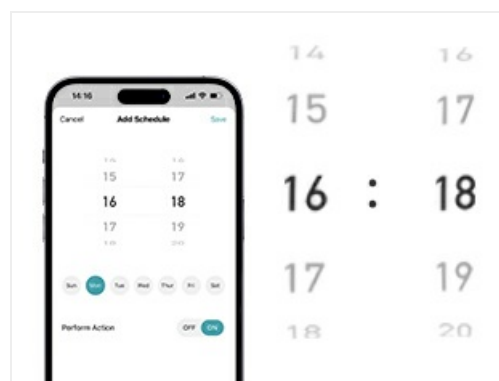




Figure 6.7: Countdown timer setup.

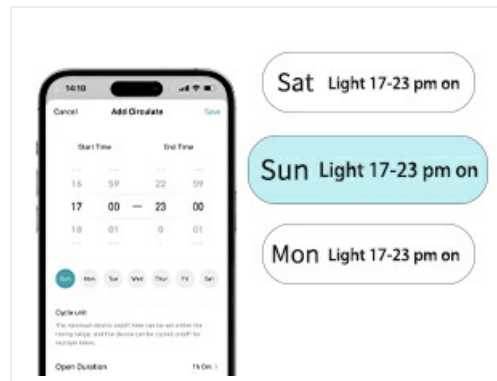


Figure 6.8: Circulate timing setup.

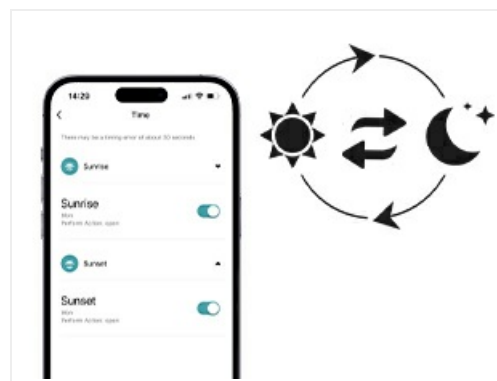


Figure 6.9: Astronomical timing setup.

6.5. Alarm Settings and Protections

The smart switch offers multiple protection features configurable via the app:

- **High CPU Temperature Protection:** Set a threshold (40-100°C) to trigger an alarm or trip the breaker.
- **High Power Protection:** Set a threshold (1-26KW) to trigger an alarm or trip the breaker.
- **Over-current Protection:** Set a threshold (1-63A) to trigger an alarm or trip the breaker.
- **Over-voltage Protection:** Set a threshold (220-265V) to trigger an alarm or trip the breaker.
- **Under-voltage Protection:** Set a threshold (76-240V) to trigger an alarm or trip the breaker.

Alarm Setting

Functional protection, the alarm function is automatically turned on after setting the threshold, and the protection tripping switch can be turned on or off

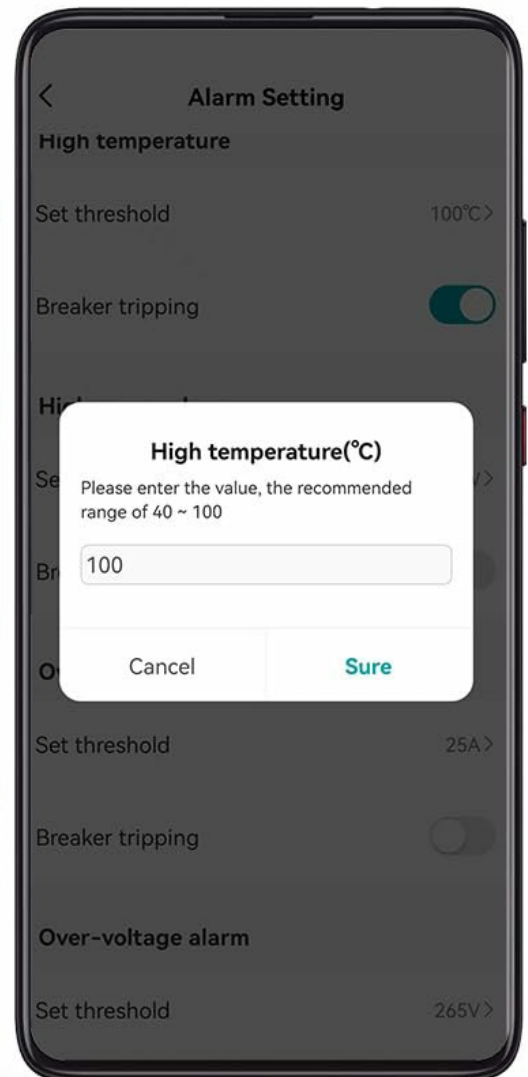


Figure 6.10: App interface for configuring alarm settings, including setting thresholds for various protections and enabling/disabling the tripping switch.

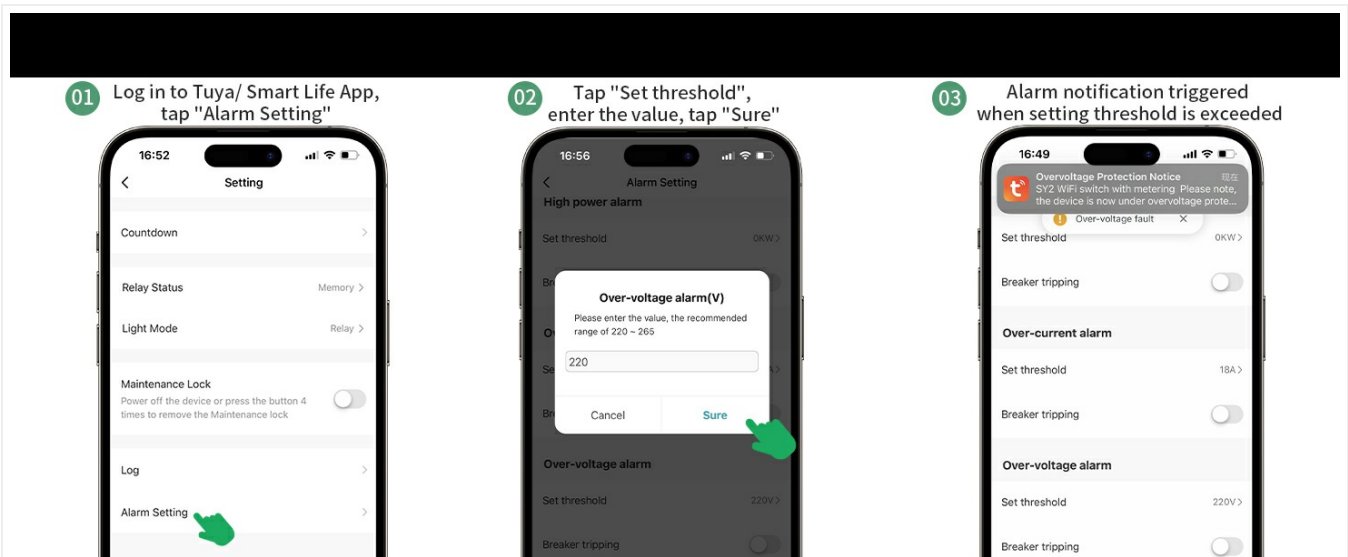


Figure 6.11: Example of an alarm notification in the app when a threshold is exceeded, without automatic tripping.

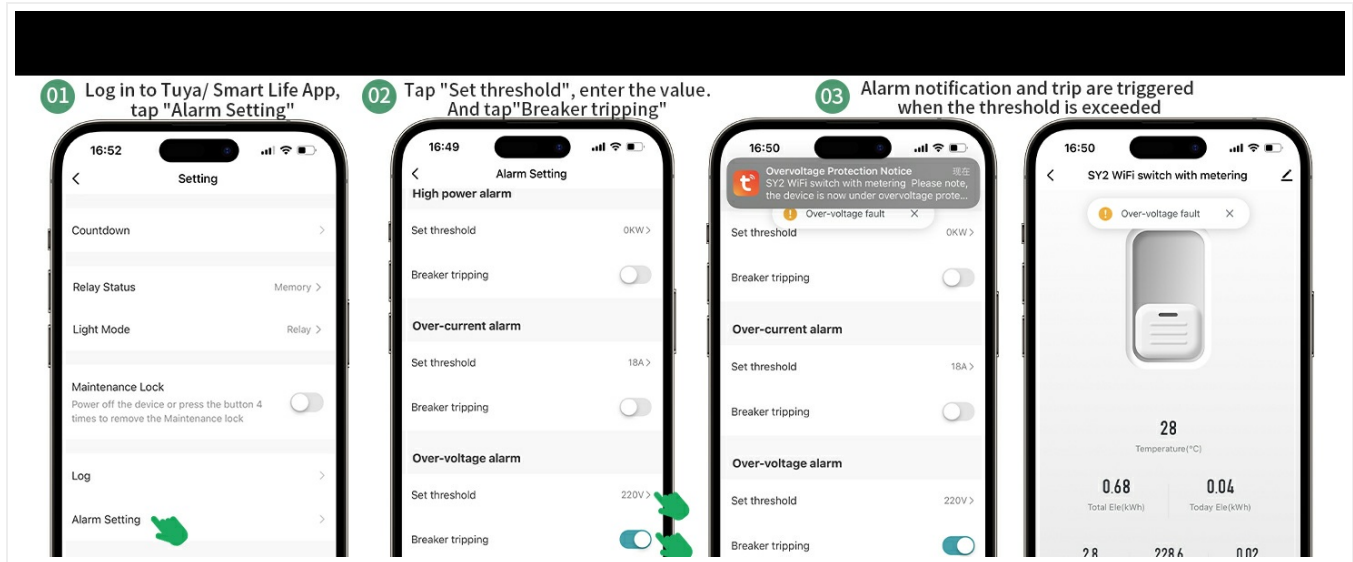


Figure 6.12: Example of an alarm notification in the app when a threshold is exceeded, with automatic tripping enabled.

6.6. Power Outage Memory

The device is equipped with a power outage memory function. In the event of a power interruption, the switch will remember its last ON/OFF status and restore it once power is re-established.

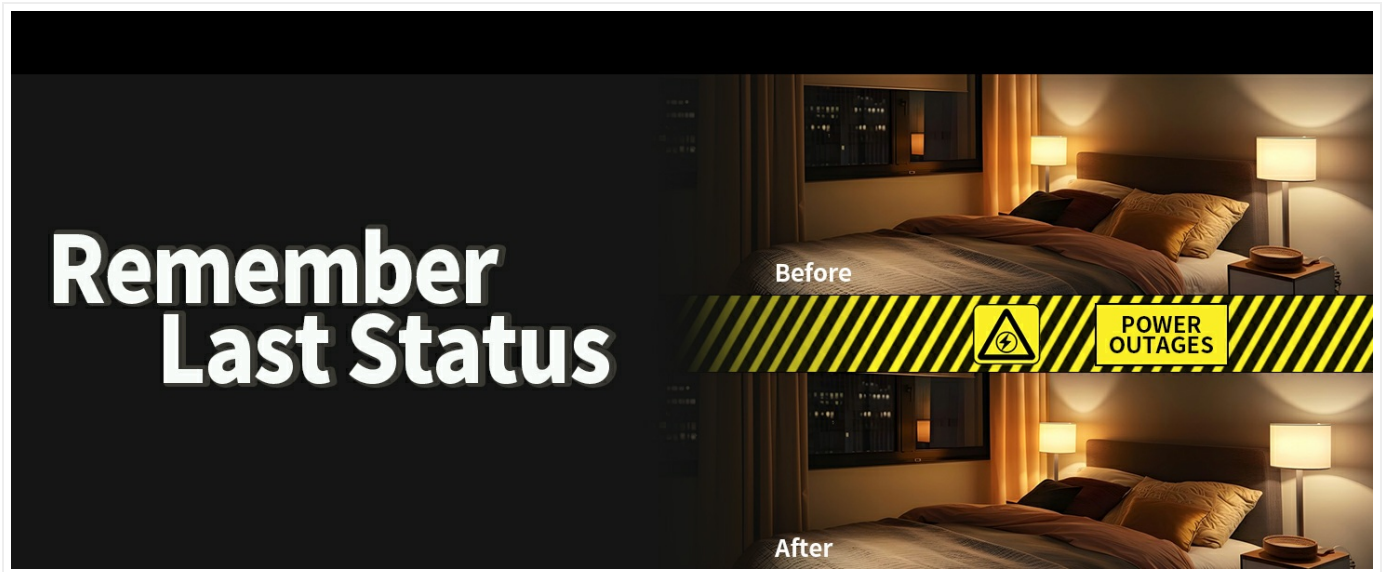


Figure 6.13: Illustration demonstrating the power outage memory feature, showing the device restoring its previous state after a power interruption.

7. MAINTENANCE

To ensure optimal performance and longevity of your TONGOU Smart DIN Rail WiFi Switch, follow these general maintenance guidelines:

- **Cleaning:** Periodically wipe the device with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check the wiring connections to ensure they remain secure.
- **Firmware Updates:** Keep the Smart Life/Tuya app updated to receive the latest firmware for the switch, which may include performance improvements and new features.

8. TROUBLESHOOTING

If you encounter issues with your smart switch, refer to the following common troubleshooting steps:

- **Device Not Connecting to Wi-Fi:**

- Ensure your Wi-Fi network is 2.4GHz. The device does not support 5GHz Wi-Fi.
- Check the LED indicator status (refer to Figure 3.2). If it's black, the network is not connected. If it's flashing blue, it's in pairing mode.
- Make sure the device is within range of your Wi-Fi router.

- **App Control Issues:**

- Verify your phone has an active internet connection.
- Ensure the Smart Life/Tuya app is up to date.
- Try restarting the app or your phone.

- **Voice Control Not Working:**

- Confirm that your Smart Life/Tuya account is correctly linked to Amazon Alexa or Google Assistant.
- Check your voice assistant device's internet connection.

- **Device Unresponsive:**

- Check the power supply to the switch.
- If the device is completely unresponsive, try power cycling it by turning off the main circuit breaker for a few seconds and then turning it back on.



Figure 8.1: The device features automatic Wi-Fi reconnection, attempting to re-establish connection if the network is temporarily lost.



Figure 8.2: Illustration suggesting an optimal Wi-Fi range of approximately 100 feet for reliable device operation.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

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