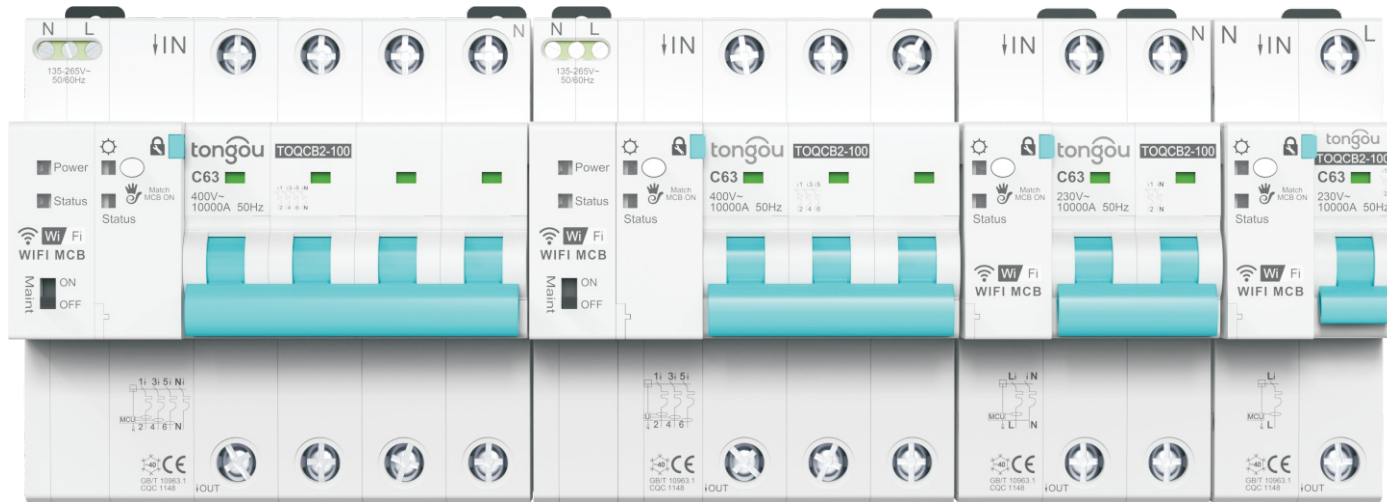


SMART METERING CIRCUIT BREAKER



Operating Manual



Smart Life



Tuya Smart



@Smart



Download APP



Main Function



Remote control



Voice control



Temperature protection



Cloud timing



Automatic reclosing



Over Power protection



Over / Under Voltage (adjustable)



Over current protection (adjustable)



Real-time metering

Main Data Parameter

Component Type: TOQCB2, TOQCB2L

Poles description: 1P, 2P, 3P, 4P

Curve Code: C

Breaking Capacity: 10kA

Control Type: Manual, Remote

App Protocol: WiFi(default)

Rated voltage of each phase: 145V-295V (default)

Leakage Sensitivity(Adjustable): 10mA, 30mA, 50mA, 100mA, 200mA,
300mA, 500mA

Customization: 4G, Lora, SigMesh, RS 485, ZigBee, RJ45

Selection Specifications

Specifications (without leakage)

Current (A)	1P	2P	3P	4P
20A	TOQCB2-JWT-1C20	TOQCB2-JWT-2C20	TOQCB2-JWT-3C20	TOQCB2-JWT-4C20
32A	TOQCB2-JWT-1C32	TOQCB2-JWT-2C32	TOQCB2-JWT-3C32	TOQCB2-JWT-4C32
63A	TOQCB2-JWT-1C63	TOQCB2-JWT-2C63	TOQCB2-JWT-3C63	TOQCB2-JWT-4C63
100A	TOQCB2-JWT-1C100	TOQCB2-JWT-2C100	/	/

Specifications (with leakage)

Current (A)	1P	2P	3P	4P
20A	TOQCB2L-JWT-1C20	TOQCB2L-JWT-2C20	TOQCB2L-JWT-3C20	TOQCB2L-JWT-4C20
32A	TOQCB2L-JWT-1C32	TOQCB2L-JWT-2C32	TOQCB2L-JWT-3C32	TOQCB2L-JWT-4C32
63A	TOQCB2L-JWT-1C63	TOQCB2L-JWT-2C63	TOQCB2L-JWT-3C63	TOQCB2L-JWT-4C63
100A	TOQCB2L-JWT-1C100	TOQCB2L-JWT-2C100	/	/

Pairing

Press and hold the button for 5 seconds to enter pairing mode.

light status

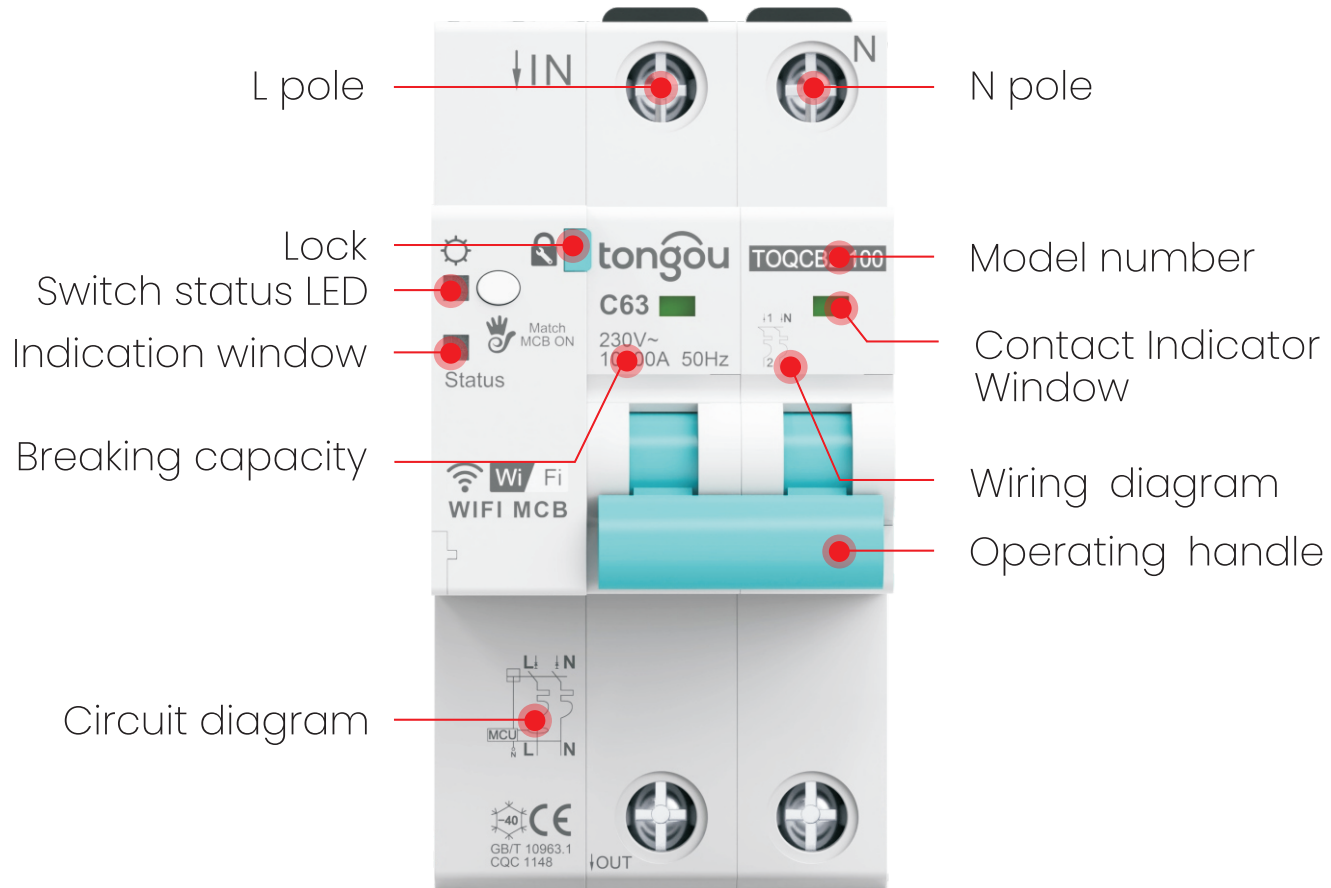
Switch Status LED steady blue, indicating that circuit breaker is disconnected.

Switch Status LED steady red, indicating that circuit breaker is closed.

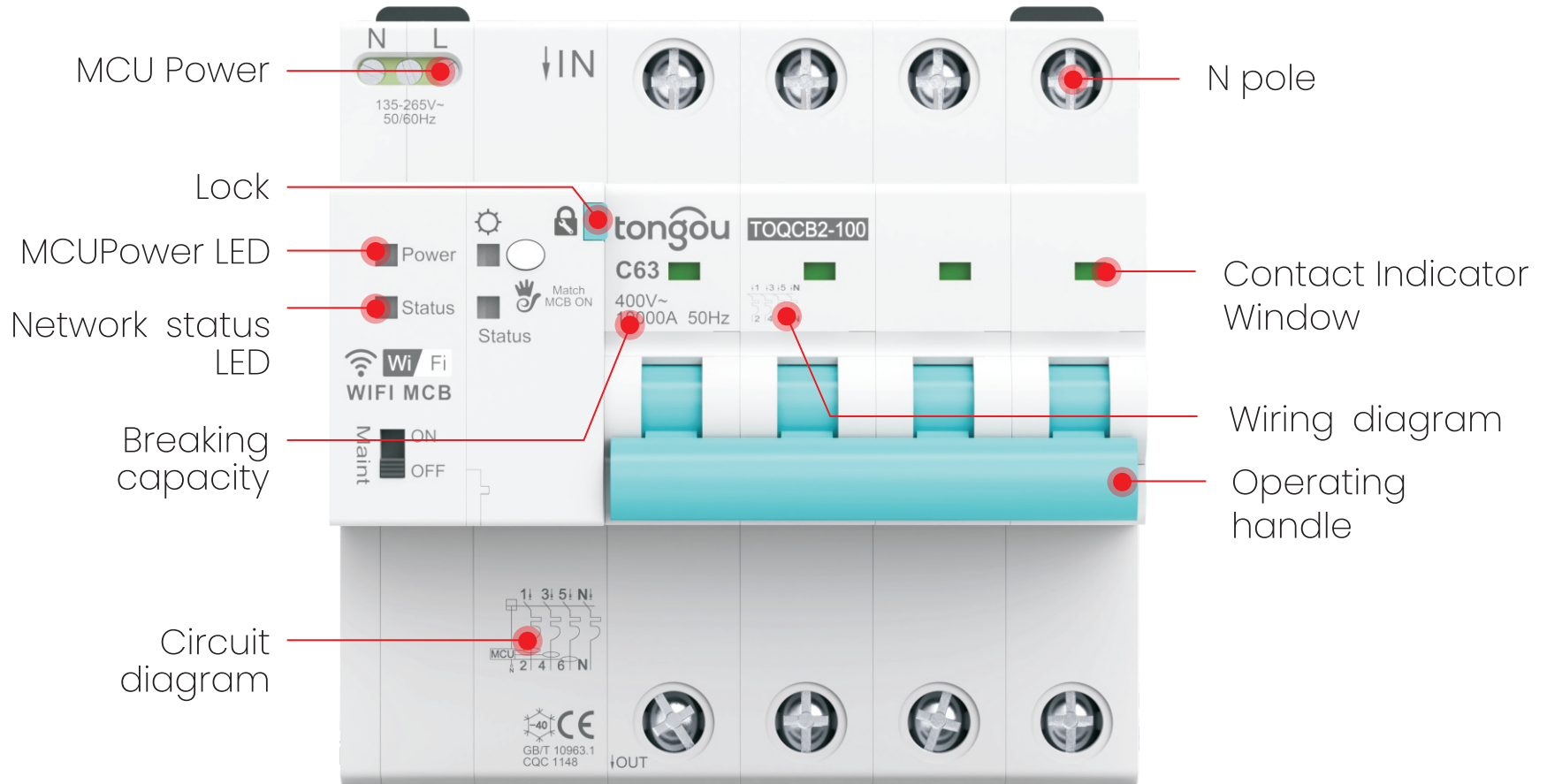
Network LED flashing red slowly indicates that circuit breaker is in off-grid mode.

Network LED flashing red quickly indicates that circuit breaker is in pairing mode.

1P / 2P Appearance



3P / 4P Appearance

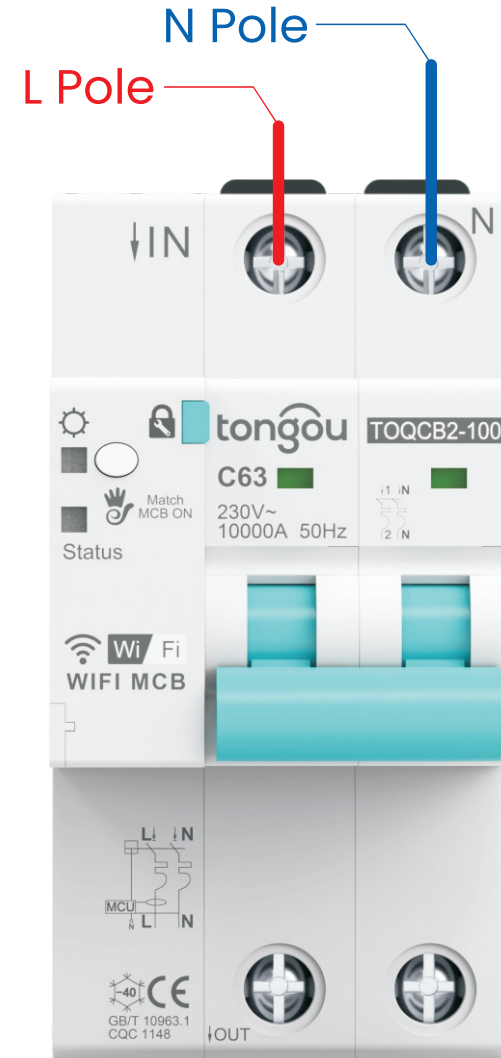


Configuration Steps

7

First Step: (Single phase)

Connect the wire from the upper end of the smart switch the live wire to the L pole, and the neutral wire to the N pole. Please ensure the correct wiring and Wi-Fi signal strength.

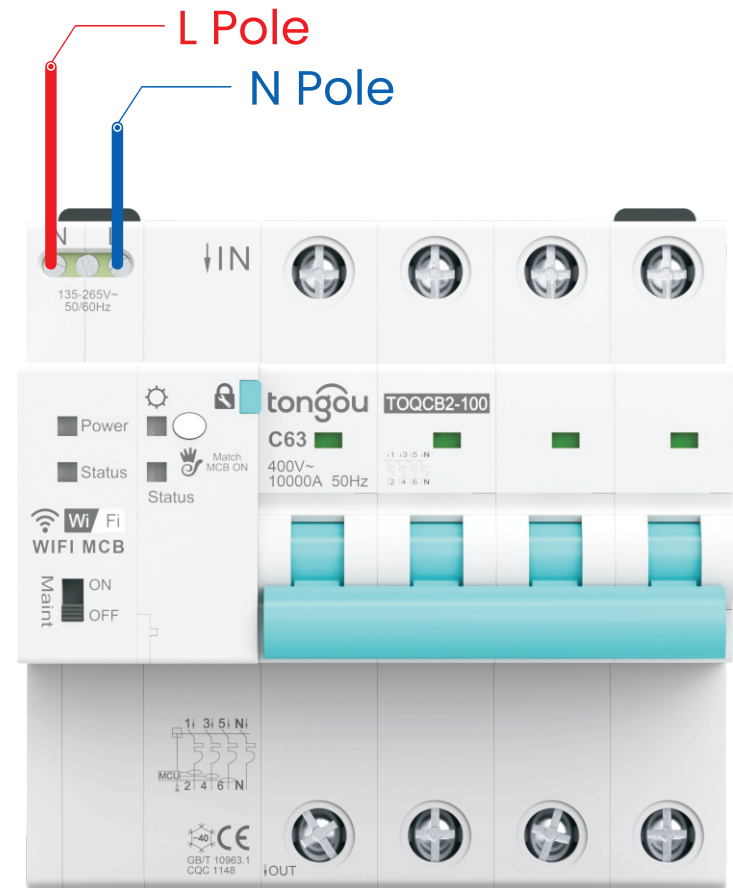


Configuration Steps

8

First Step: (Three phase)

Connect the wire from the upper end of the smart switch the live wire to the L pole and the neutral wire to the N pole. Please ensure the correct wiring and Wi-Fi signal strength.



Configuration Steps

Second Step

Turn on the Bluetooth and Wi-Fi on your mobile. Log in to the App and press and hold the pairing button for about 5-10 seconds. When the Network status LED flashes quickly in red, wait on the App interface.



Log in

Register

Password login

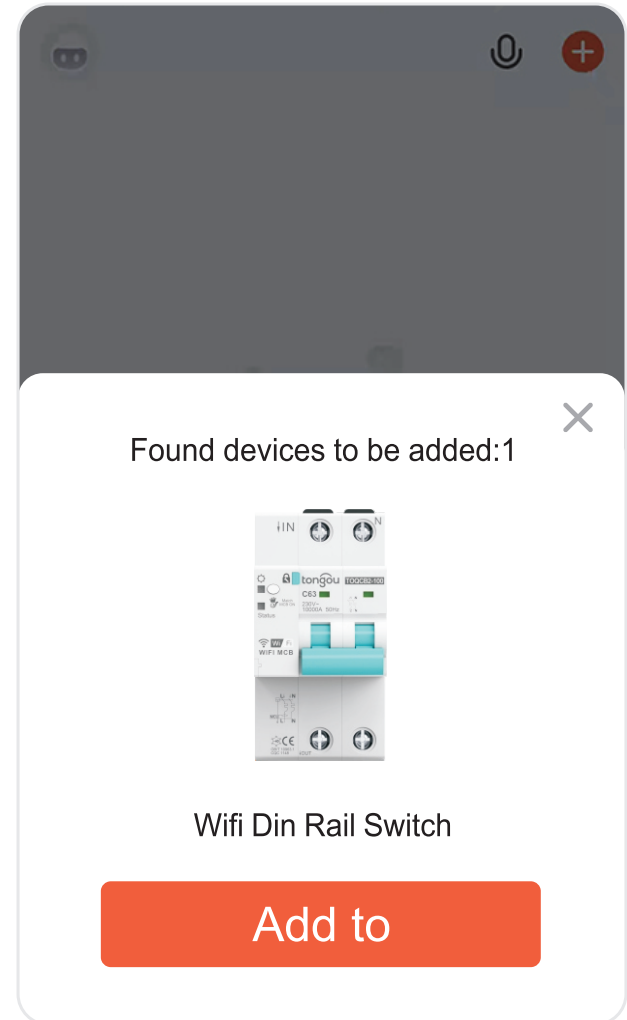


Configuration Steps

10

Third Step

While waiting on the App interface, the matching object will automatically pop up. Alternatively, click the '+' in the upper right corner, select 'Add', wait for the device to be discovered, and then click 'Add to'.



Configuration Steps

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Fourth Step

Enter the password for your Wi-Fi account, click 'Next step', and wait for the circuit breaker to connect to the network.

Cancel

Select device working Wi-Fi
and enter password

 TONGOU 

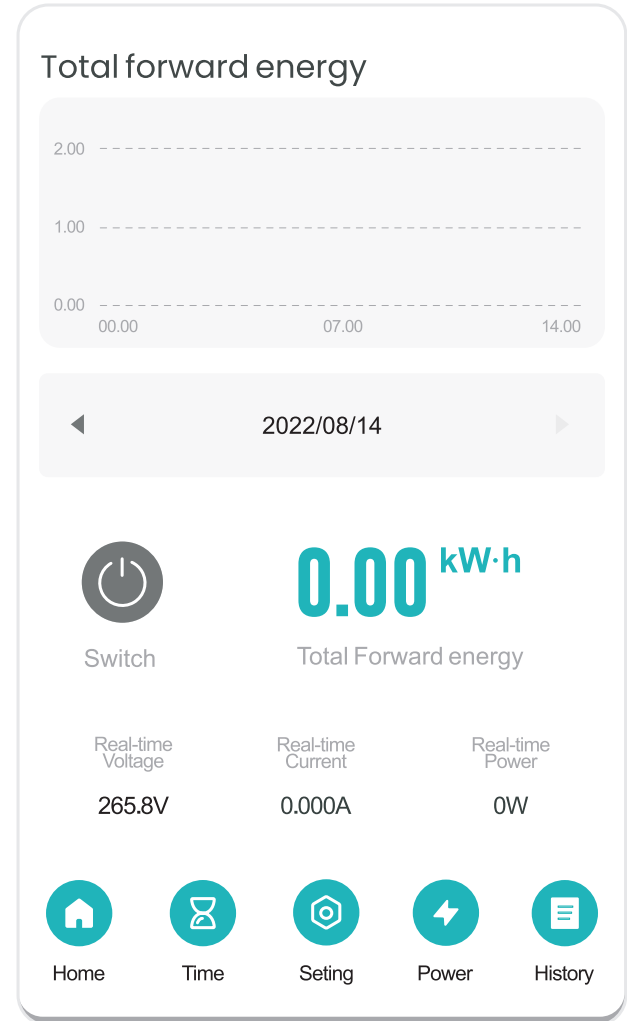
Next step

Configuration Steps

12

Fifth Step

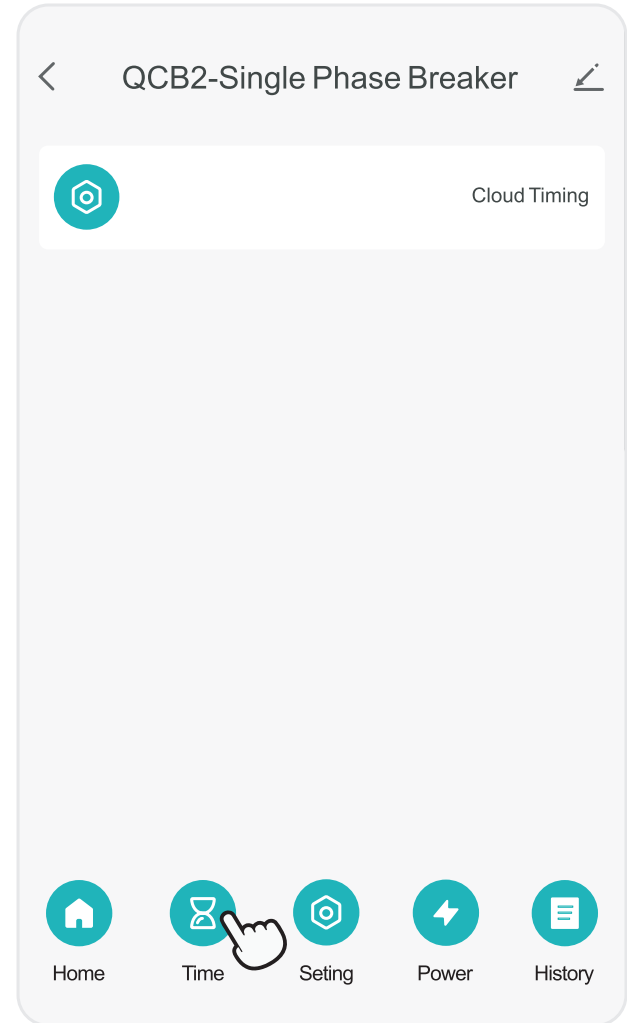
After successful connection enter the App operation interface.



Time setting

First Step

First click the '🕒' icon, then click 'Cloud Timing'.

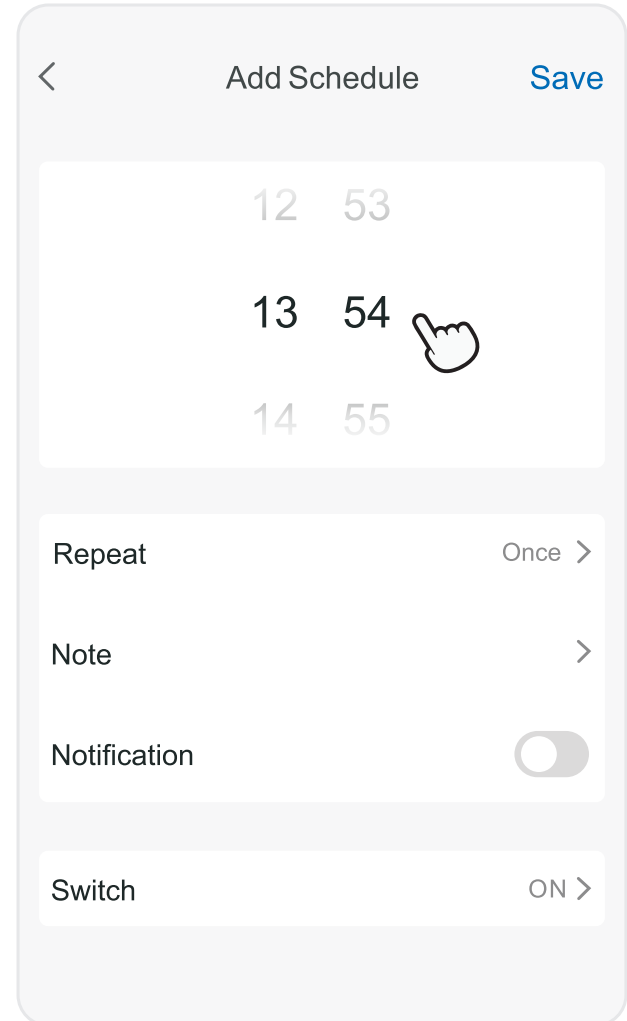


Time setting

14

Third Step

Enter the 'Add Timing' interface.
After setting the time as required,
click 'Save.'




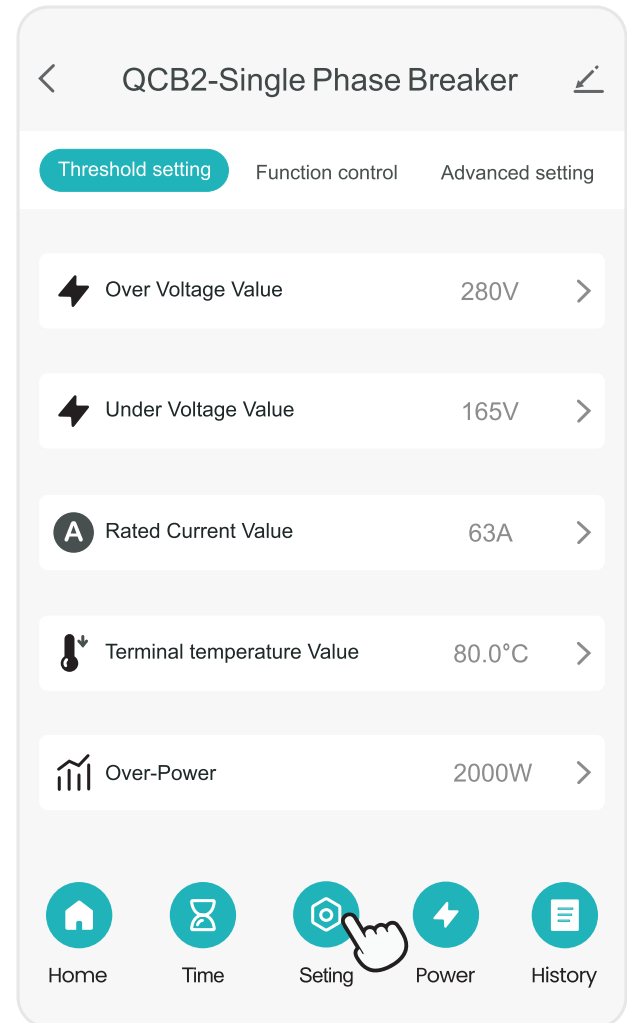
The screenshot shows a mobile application interface for adding a schedule. At the top, there is a back arrow, the title "Add Schedule", and a "Save" button. Below the title is a time selection grid with three rows: "12 53", "13 54" (which is highlighted with a hand cursor), and "14 55". Underneath the grid are four settings: "Repeat" set to "Once" with a right arrow, "Note" with a right arrow, "Notification" with a toggle switch that is currently off, and "Switch" set to "ON" with a right arrow.

Function settings

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Threshold setting

Click the '  ' icon to enter the threshold setting.

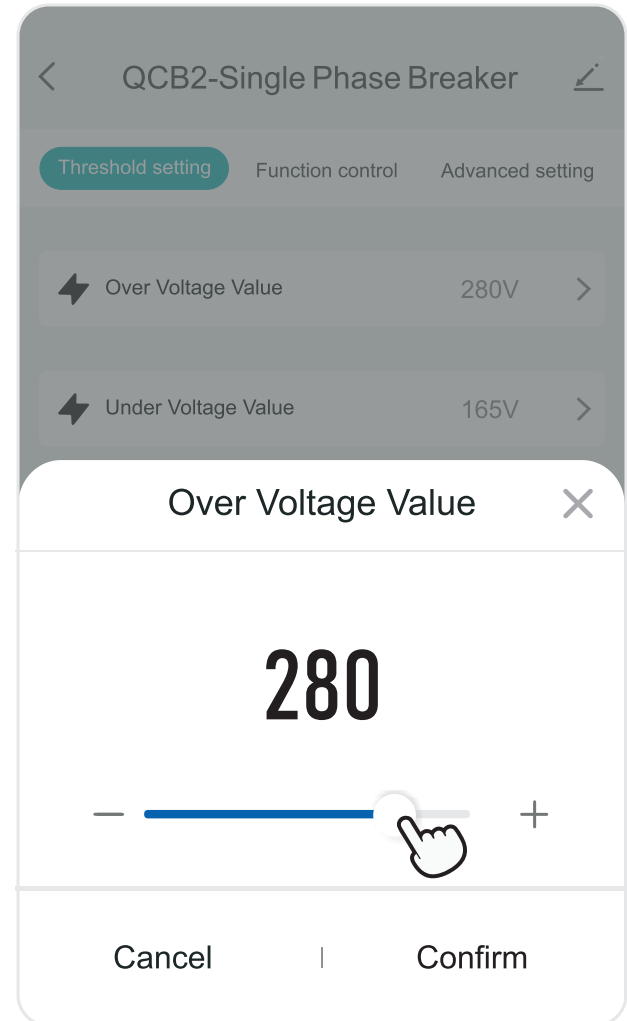


Threshold setting

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Over-voltage protection

Range of adjustment:
245V-295V.
Default: **280V.**

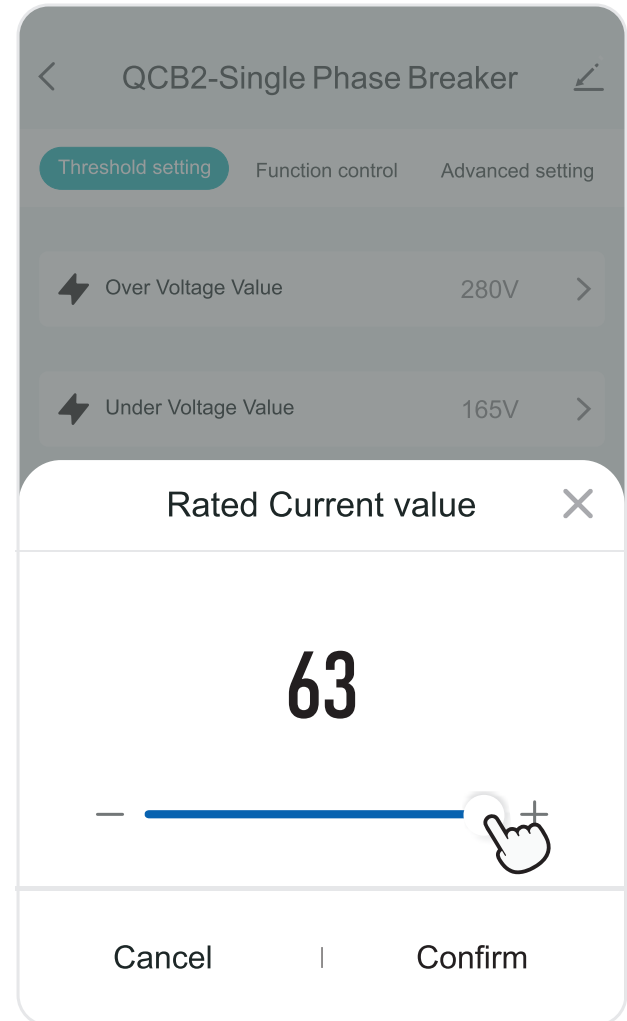


Threshold setting

17

Over-current protection

Range of adjustment:
1-63A.
Default: **63A.**

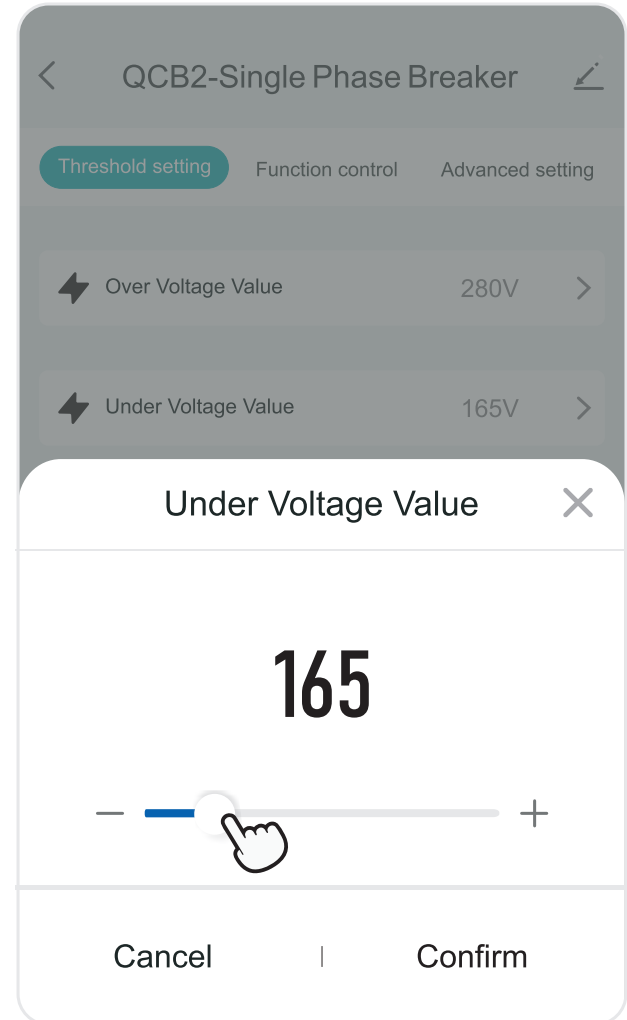


Threshold setting

18

Under-voltage protection

Range of adjustment:
145V-220V.
Default: **165V.**

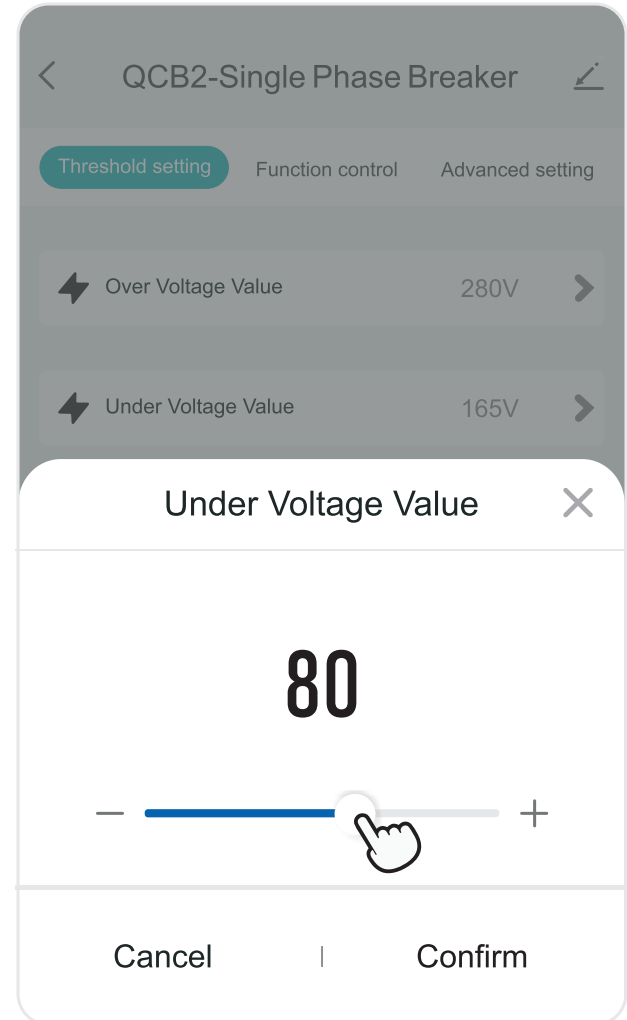


Threshold setting

19

Temperature protection

Range of adjustment:
-40°C - 100°C.
Default: 80°C.

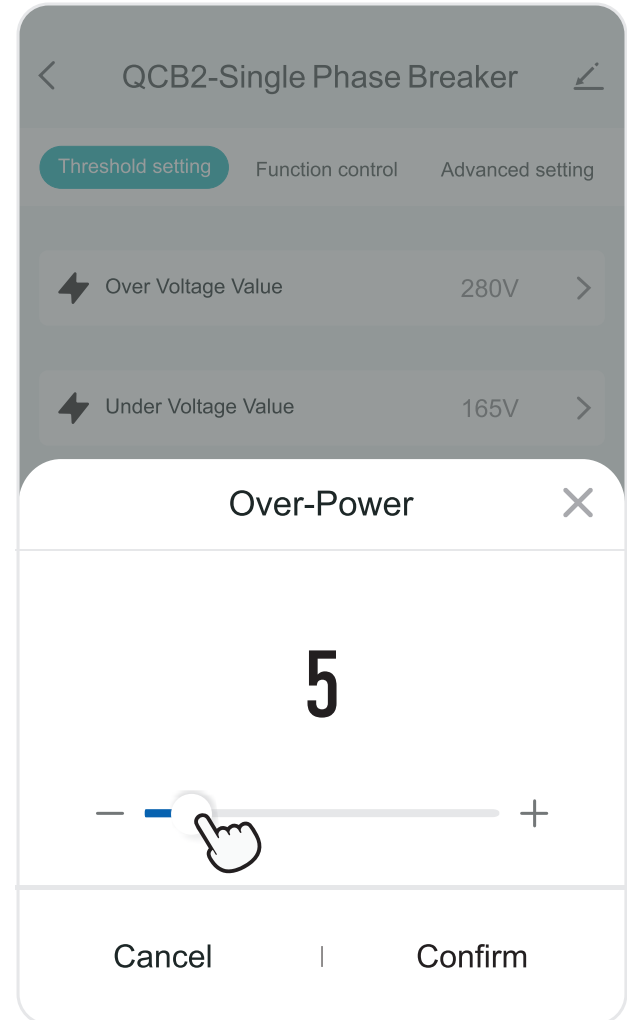


Threshold setting

20

Over-power protection

Range of adjustment:
5W-25000W.
Default: **2000W.**



Function settings

21

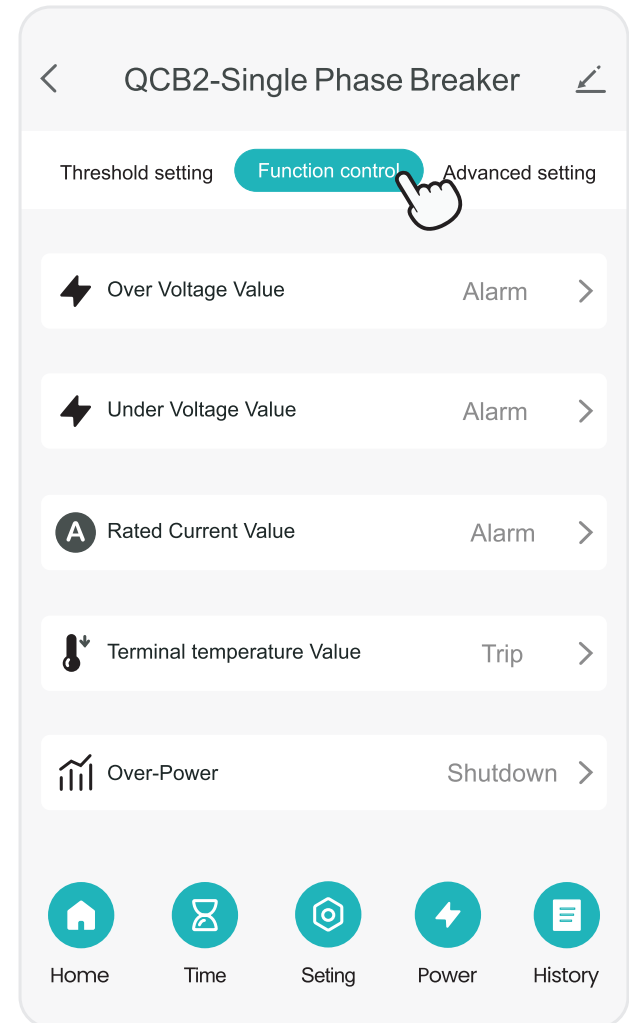
In this interface, you can customize all functions

Function definitions

Closed: Disable the function.

Alarm: APP will issue an alarm.

Open: Fault trip protection.

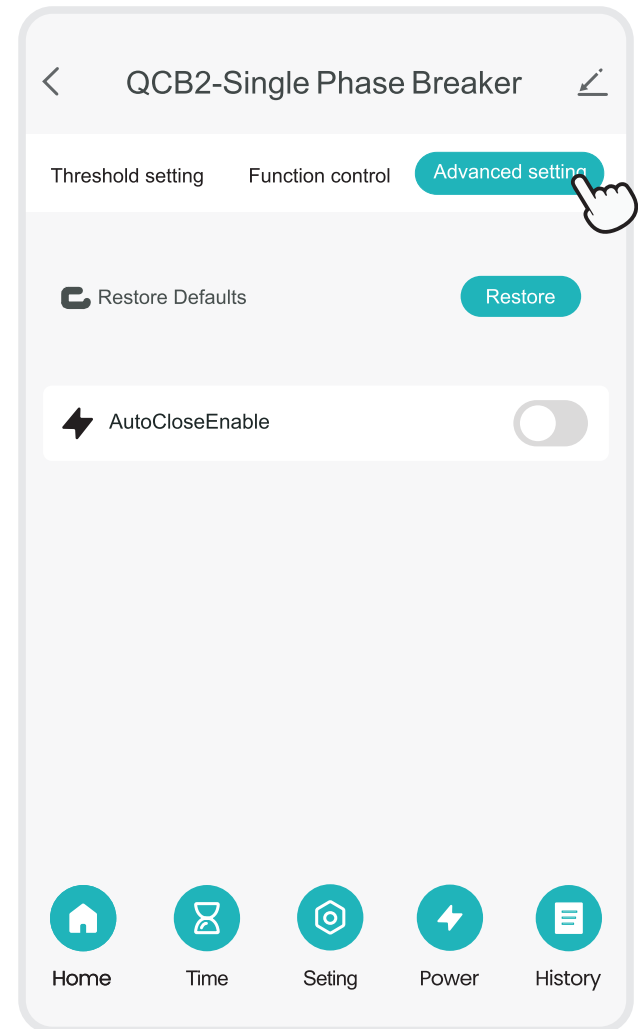


Advanced Features

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Advanced setting

First click the '🏠' icon, then click 'Advanced function' enters the interface.

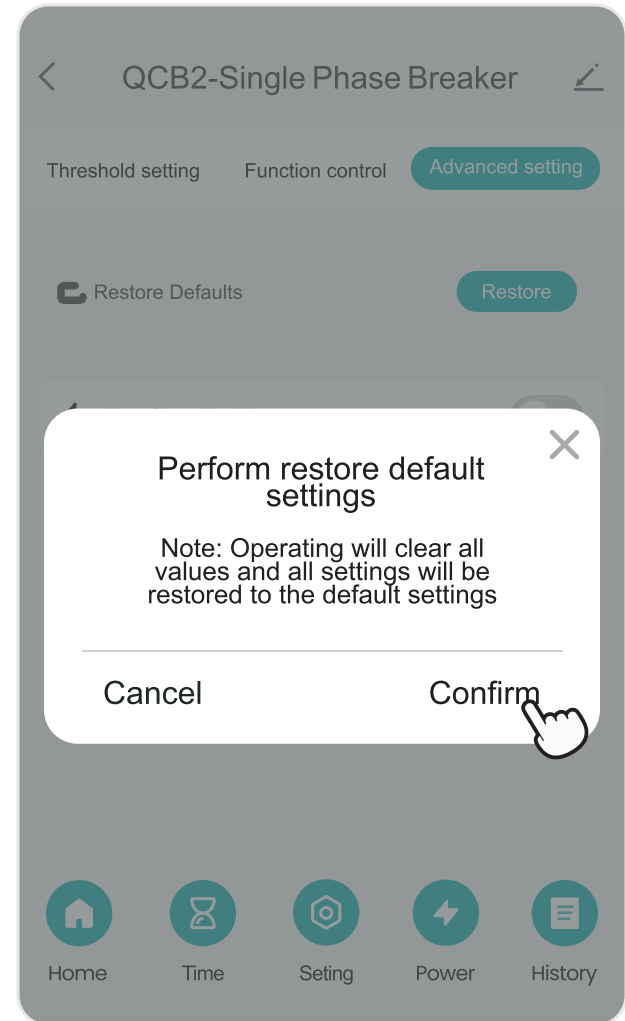


Advanced Features

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Restore Defaults

Note: Executing the operation clears all data values. All settings will be restored to the default factory settings.



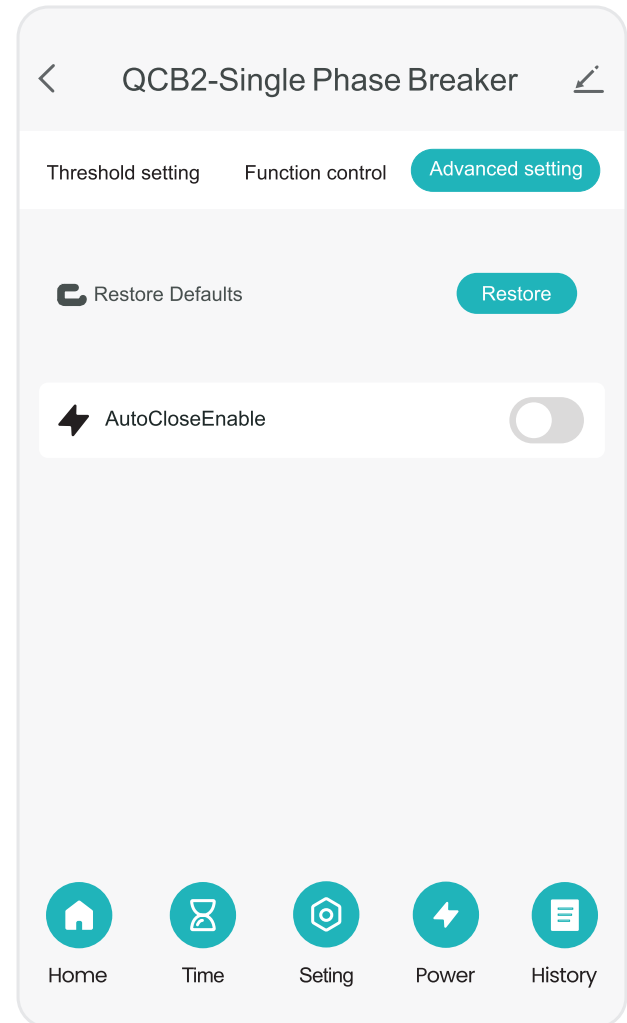
Advanced Features

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AutoCloseEnable

When the circuit breaker trips due to voltage protection, it will automatically close when the circuit voltage returns to normal.

(Note: For safety reasons, this function only applies to trips caused by voltage.)

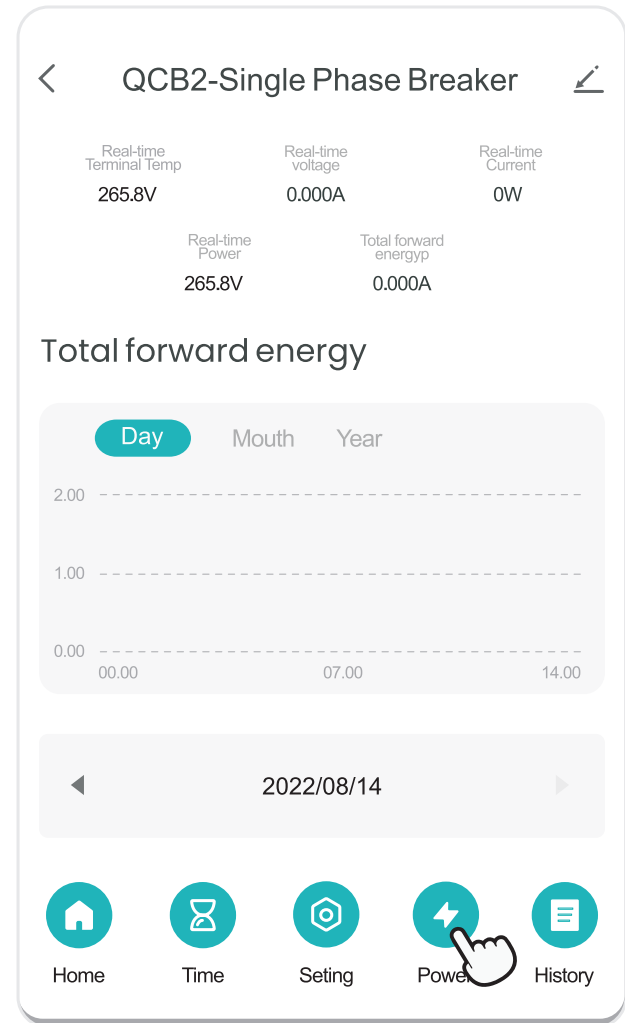


Advanced Features

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Power(1P, 2P)

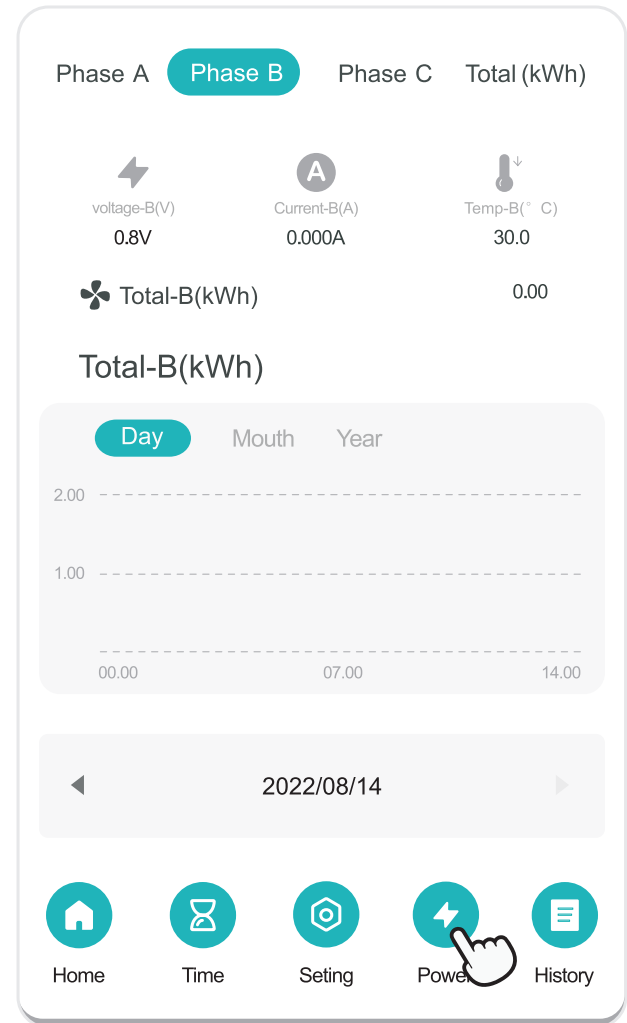
Real-time view of the current, voltage, power, and terminal temperature of each phase. Record the power consumption of each phase for different time periods (year/month/day/hour).



Advanced Features

Phase(3P, 4P)

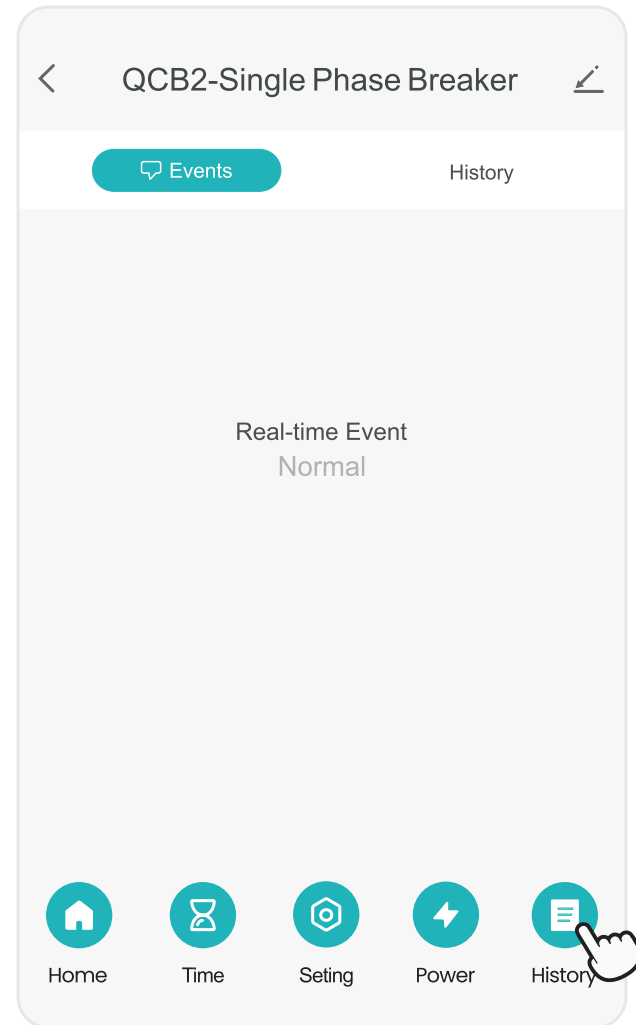
Real-time view of current, voltage, power and terminal temperature of each phase. Record the power consumption of each phase for different time periods (year/month/day/hour).



History

Events

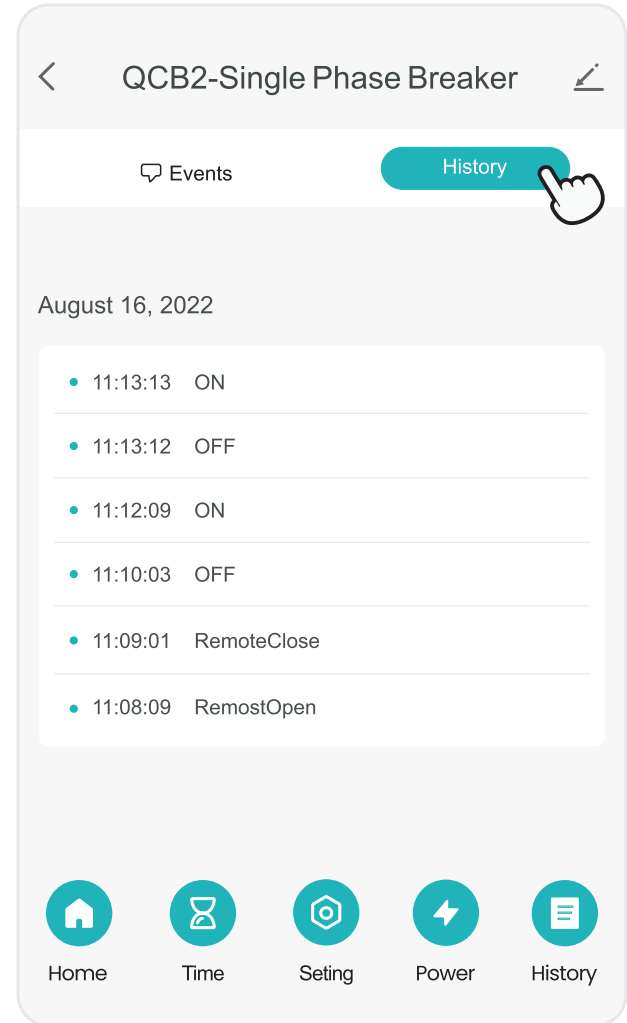
Click the '📄' icon to view the operation status of the Smart circuit breaker.



History

History

Click 'History' to view the smart circuit breaker operation log.



Share function

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First step

Enter the home page and click '

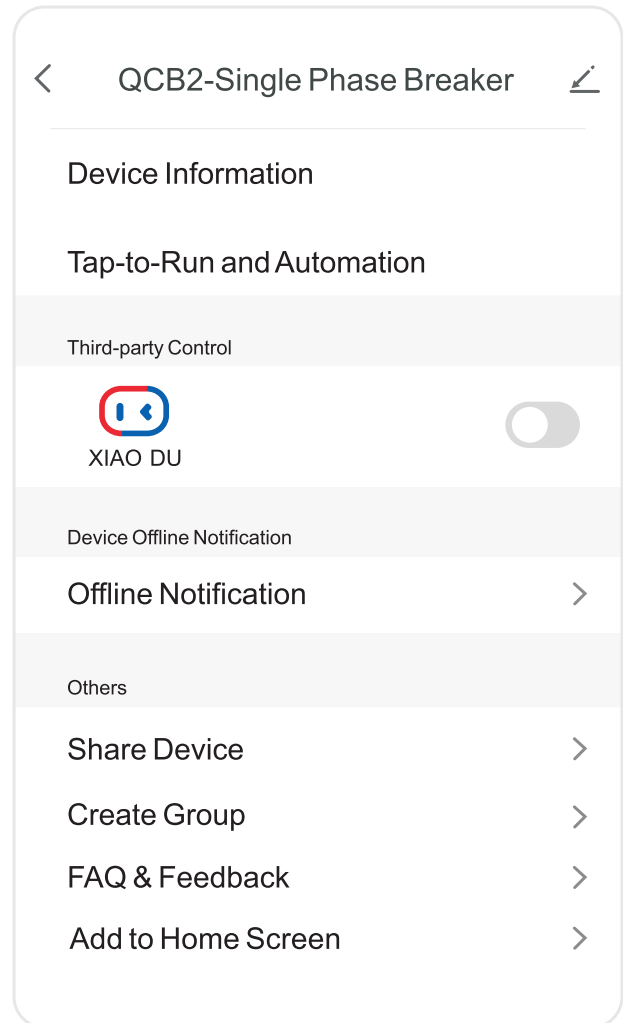
The screenshot displays the control interface for a QCB2-Single Phase Breaker. At the top, there is a back arrow and the device name 'QCB2-Single Phase Breaker'. A hand icon is pointing to a share icon in the top right corner. Below this, the text 'Today Ele (kWh)' is followed by 'Total forward energy'. A line graph shows energy consumption over time, with a y-axis from 0.00 to 2.00 kWh and an x-axis from 00.00 to 14.00. The current date is 2022/08/14. The main display shows a power button icon labeled 'Switch' and a large digital readout showing '0.00 kW·h' labeled 'Total Forward energy'. At the bottom, there is a navigation bar with five icons: Home, Time, Setting, Power, and History.

Share function

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Second step

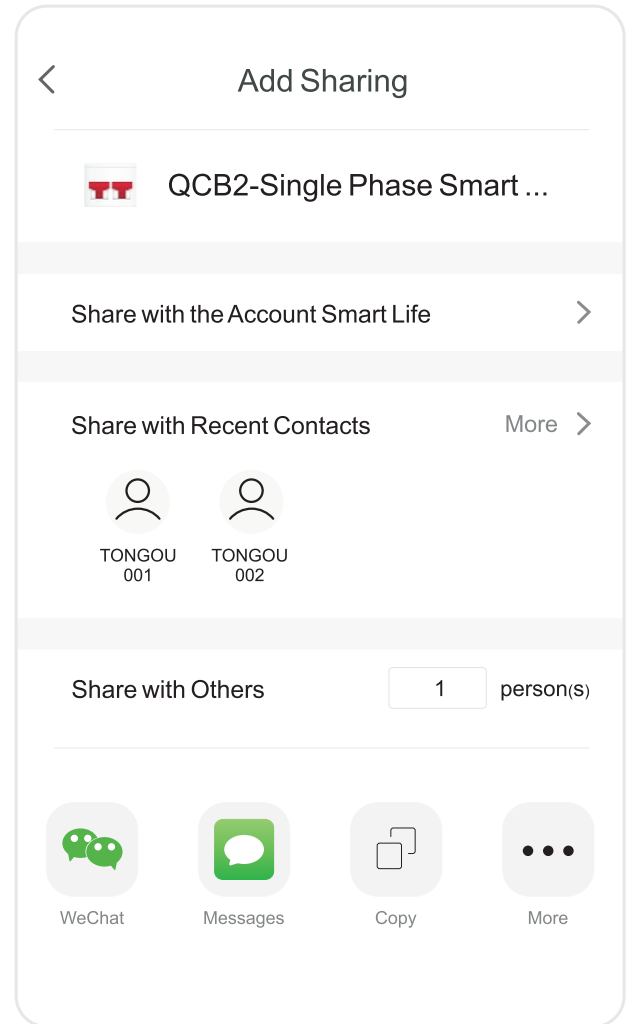
Click 'Share Device'.



Share function

Third step

Enter this interface and share it with others in your own way.



Wiring Diagram

