S1 Electricity measure Smart control Programmable Socket

(Instruction Manual)

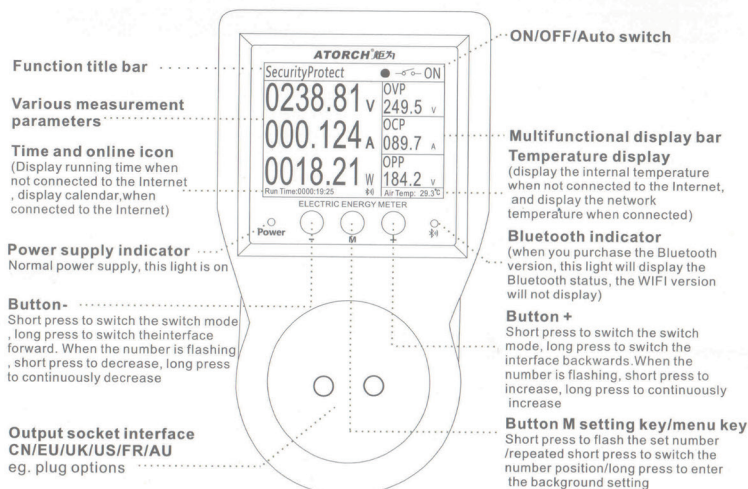https://forum.avhzy.com

S1 TW

US

Video tutorial

This equipment is used for Smart on-off control, safety protection control, Programmable control, Internet of Things data transmission and wireless control, accumulative power, calculation of electricity bill And measure detailed parameters such as current voltage, current, power and frequency

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Product type and attributes:

This product is divided into Bluetooth version and smart WIFI version, please check the user manual and purchase in detail!

This product user manual is suitable for different types of sockets such as CN Plug , US Plug , EU Plug , UK Plug , FR Plug , AU Plug and so on!

Key operation method and interface introduction:

Function title bar

Various measurement parameters

Time and online icon
(Display running time when not connected to the Internet , display calendar,when connected to the Internet)

Power supply indicator
Normal power supply, this light is on

Button-
Short press to switch the switch mode , long press to switch the interface forward. When the number is flashing , short press to decrease, long press to continuously decrease

Output socket interface
CN/EU/UK/US/FR/AU
eg. plug options

ON/OFF/Auto switch

Multifunctional display bar
Temperature display
(display the internal temperature when not connected to the Internet, and display the network temperature when connected)

Bluetooth indicator
(when you purchase the Bluetooth version, this light will display the Bluetooth status, the WIFI version will not display)

Button +
Short press to switch the switch mode, long press to switch the interface backwards.When the number is flashing, short press to increase, long press to continuously increase

Button M setting key/menu key
Short press to flash the set number /repeated short press to switch the number position/long press to enter the background setting

Introduction to the operation of function interface switching and measurement interface value setting:

Turn on the power as shown in the figure above, the display will light up, long press the "+" or "-" button to switch the display interface of each function forward or backward. Long press the "M" key to enter the setting interface of the system background. Short press the "M" key on the front-end interface, the set corresponding number flashes, and then short press the +/- keys to adjust the value. While flashing, continue to short press the "M" key to switch the number of digits and then adjust the following numbers. When the flashing stops, the system will automatically save and display OK, long press the "M" key to save immediately; In normal times, short press the "+/-" key to switch between "normally open-normally closed-auto" and other switching modes.

Introduction to the operation of the background setting interface:

After long press the "M" key to enter the background interface, short press the "M" key to cycle down to switch the desired setting menu in a color-changing manner. After changing the color of the selected menu, short press the "+/-" key to adjust the current value once or long press to continuously adjust the current value. When in the background interface, long press the "M" key to quickly exit the background setting interface and quickly return to the foreground function measurement interface.

Long press the "M" button to enter the background setting interface, then short press the M button to switch the setting column, when there is a number flashing, short press the +/- button to adjust the number, and then long press the +/- button to carry or abort the flashing number To make adjustments:

```
        ATORCH AT4PBW Menu Vx.x.x
01.中文  English
02.Display Brightness   :9
03.Standby Brightness   :3
04.Enter Standby time   :60S
05.Key Beep ON
06.Price                :0001.00
07.Over-Voltage         :265.0V
08.Over-Current         :025.0A
09.Over-Power           :7000W
10.Switching Model      Controlled
11.Data Zero
12.Wi-Fi Device Reset(Not Have)
13.System All Default Setting
15.Screen ratation
```

Short press the adder, long press the continuous adder or short press to select and execute the current column

Long press to enter the background, in the background is a short press to switch the menu

Short press the subtraction, long press the continuous subtraction or short press to select and execute the current column

1) Overvoltage, overcurrent and undervoltage protection threshold: when this threshold is reached, an alarm interface will pop up, and the output will be turned off if the relay type is used;
2) Standby screen: If it is set to simple measurement, it will enter the measurement interface mode with large numbers when the standby time is reached;
3) Clear the accumulated data: press the "+" button to this column, and the word "OK" will pop up to make it clear that the accumulated electricity bill data is zero;
4) WiFi settings reset: If you have changed the WiFi network account password environment, please reset this column to reconfigure the network;5) Restore factory settings: restore all data to factory values (short press the M key to this column and then long press the "+" key for 3 seconds to reset the system)

Bluetooth connection or WiFi connection steps:

WiFi version: Scan the QR code displayed on the host to download the Smart Life APP or Tuya APP, and operate according to the methods and steps displayed on the interface to connect to the Internet

Bluetooth version: Search for E_test in the Apple app or scan the Android code to download and install it, then click the icon to open the APP, then click the Bluetooth icon in the upper left corner of the interface to enter the list and display the S1B-BLE model, and then click the model to automatically return to the main interface of the APP. At this time, the bluetooth icon of the host changes from the original gray to blue and you hear the beeping sound of the speaker, which means that the connection to the computer is successful, and the data starts to be transmitted and displayed synchronously.

Warning: If the model S1B-BLE cannot be displayed after clicking the Bluetooth icon in the upper left corner of the APP interface, please enter your mobile phone settings to open the storage permission and location information options of this APP! After these two items are fully turned on, return to the APP interface and then enter to display the model correctly.

Electrical parameters:

Function	Bluetooth version	WIFI version
Product name:	S1 Bluetooth version metering socket	S1 smart WIFI metering socket
model number:	S1B	S1W
Test voltage:	AC85-265V / 50-60Hz	
Test current:	0-10A max 16A	
Test power:	Max 3680W	
Power range:	0-99999Kwh	
Measurement accuracy:	±1%	
Power factor:	0-1.00PF	
Product size:	133X76X73mm	
Operating temperature:	-10°C~+60°C	
Mobile control:	Electric energy meter E-test APP	Tuya or smart life APP
Firmware upgrade:	OTA Bluetooth firmware upgrade	WIFI remote networking firmware upgrade
Power-off memory:	support	support
Other functions:	None	Get Internet time, calendar and weather data display.

Setting method and application of safety protection function:

Long press the "+" key to go to the security protection page, short press the "M" key, and the voltage hundred digits of the overvoltage automatic power-off bar will flash, then short press the "+" or "-" keys to adjust the value, short press the "M" key again, the voltage tens will flash and can be adjusted. Continue with this method, flashing the value of the over-current power column and can be adjusted, after the adjustment is completed, long press the "M" key to save or flash to stop the system to automatically save. The set protection threshold value can be increased by 5~10% according to your application value, so as to ensure normal use and also have the power-off protection function (the set protection value will also run in the background of other interfaces). When the input voltage or the power value of the current flow exceeds the threshold you set, the system will instantly cut off the power and use the horn to prompt, and at the same time display an alarm message on the display for you to check. At this time, if the user's button signal or infrared remote control signal is not received, the product will continue to power off. Until the user releases the danger and presses any key or remote control key on the host, the system will return to the protection interface and automatically be in the off state, waiting for the user to reset or restart the power.

Security protection settings skills for charging, such as applying smart power off (Category A) to electric vehicles or full power failure of mobile phones:

Long press the "+" button to go to the smart power-off category A page and select the "on" state, observe and record the charging power value of the charged device once after it is fully charged; Then, add 2~5W on the basis of this value, which is the power value of how many watts of your full automatic power-off setting is less than the continuous value and turn on the "auto" gear. In this way, when the system detects that the current power value is less than the power value you set and continues for the recharge time you set, the system displays the power-off icon and cuts off the power output, thereby protecting your device(The longer the duration you set, the longer the subsequent charging time is when it is fully charged, so as to ensure that the device can be fully charged and at the same time double-monitoring to achieve accurate and automatic power-off for safe charging protection).

Tips for viewing the progress bar and countdown in the lower right corner of the display interface:

When the system detects that the measured power value is less than the power value you set, the system starts counting down, and the progress bar is calculated according to the duration ratio you set. The progress bar decreases and changes color from yellow to red until the end of the power failure. When the power value measured by the system is greater than the power value you set at a certain moment, the countdown will be cleared immediately, and the progress bar will fill up instantly, and then a new round of detection will be performed.

Setting skills, such as applying smart power off (Class B) to avoid loss of electricity bills caused by people leaving home for a long time and forgetting to turn off the device:

Long press the "+" button to go to the smart power-off type B page and select the "on" state. Observe and record the minimum power value of the connected device when it is powered on. Then, subtract 5~25W on the basis of this value. This is how many watts of power should be set for your connection and turn it on to the "auto" gear. In this way, when the system detects that the current power value is greater than the power value you set, it will judge that your device has been powered on. At this time, the system starts to count down to the duration value you set, and the system determines that you may have forgotten to turn off the device because you left home and automatically cut off the power, so as to achieve the purpose of people

accidentally forgetting to turn off the equipment and causing the equipment to run for a long time when no one is left, which consumes huge electric energy and causes huge loss risks. When the power is automatically disconnected, the system horn will beep several times, and at the same time, a red power-off information interface will be displayed. At this time, if the system detects any key signal or your device's remote control signal and mobile phone APP and other key signals, it can resurrect and return to the smart power-off interface, and automatically turn on the power again and start the next round of smart power-off process.

This feature comes from a real story: A worker who travels frequently, carelessly forgot to turn off the air conditioner at home before a business trip. The air conditioner was turned on for a few months during the business trip. After returning home, he found that he had used thousands of kilowatt-hours of electricity and caused a loss of thousands of yuan.

Setting method, such as applying the timing power supply page to timing charging devices such as mobile phones or electric vehicles:

Long press the "+" button to go to the timing power supply page, set the time you are expected to be fully charged by the charging device, and then press the "+" button to enter the automatic mode. The system is powered on and the countdown reaches the time you set. When the system automatically cuts off the power output on time, the speaker emits a beep and the display shows a red cut off interface.

Applying the cyclic timer switch in intermittent oxygen addition to fish ponds or exhaust fans, electric lights, street lights, electrical appliances, etc.:

This feature can be used to intermittently add oxygen to fish ponds or household fish tanks, to provide intermittent power supply to electric fans to achieve a natural wind-like atmosphere, and to provide intermittent power supply to some exhaust fans to save electricity bills, and to program time for other devices that require intermittent power supply and then be automatically controlled by their time axis. The opening or closing time can be set to any time you need according to different situations. In some occasions that do not need to use electricity for a long time, you can use this product to change it to any time, with intermittent power supply, thereby saving power and reducing costs.

Difference between several programming timing switches:

Timing power supply page: The power supply will be disconnected after the countdown operation ends according to the time set by the user;

Cycle timing switch: according to the different switch duration set by the user, the countdown is turned off-on-off automatic cycle power supply;

Countdown switch page: According to the different switch duration set by the user, a countdown is turned on and then turned off.

The electrical energy monitoring page of the product homepage is suitable for measuring and statistics of electrical energy and electricity parameters of various electrical appliances:

The product can realize electricity statistics, calculate electricity bills, and view the current voltage, current, power and other values, and can also play a 24-hour full safety protection of automatic power off when overvoltage and overcurrent power are encountered; or the socket output is connected to you Home appliances such as refrigerators, washing machines, induction cookers, etc., statistics their power consumption and calculate their electricity consumption and other detailed information.

APP software and download address: http://www.atorch.cn

(Please refer to the official website for more details)

Safety warning: The input of this product is strong electricity. Do not touch the metal parts with electricity during use. Be sure to pay attention to safety

1. Please download the "smart life" software from google play or iphone APP store

2. Socket input power, When the socket power on, socket enter into the status of waiting for WIFI distribution network and the WIFI led will flash is interval . its means meter enter into the status of waiting for WIFI distribution network

3. Open the "smart life" app, Add device: Please check firstly that your telephone have connected the available WIFI network, then click "add device " button
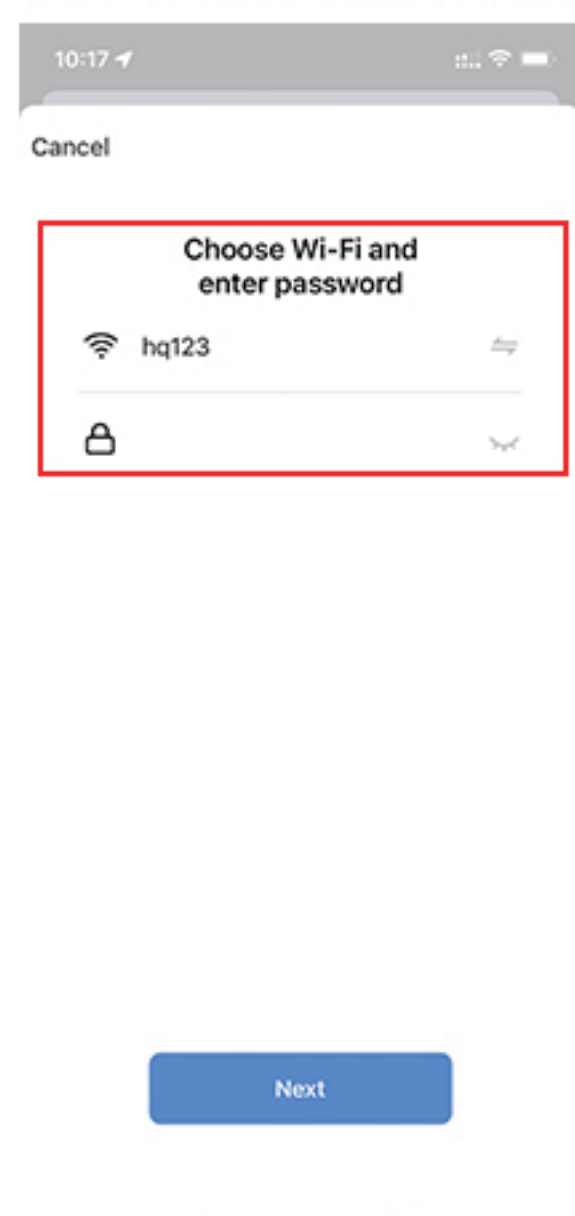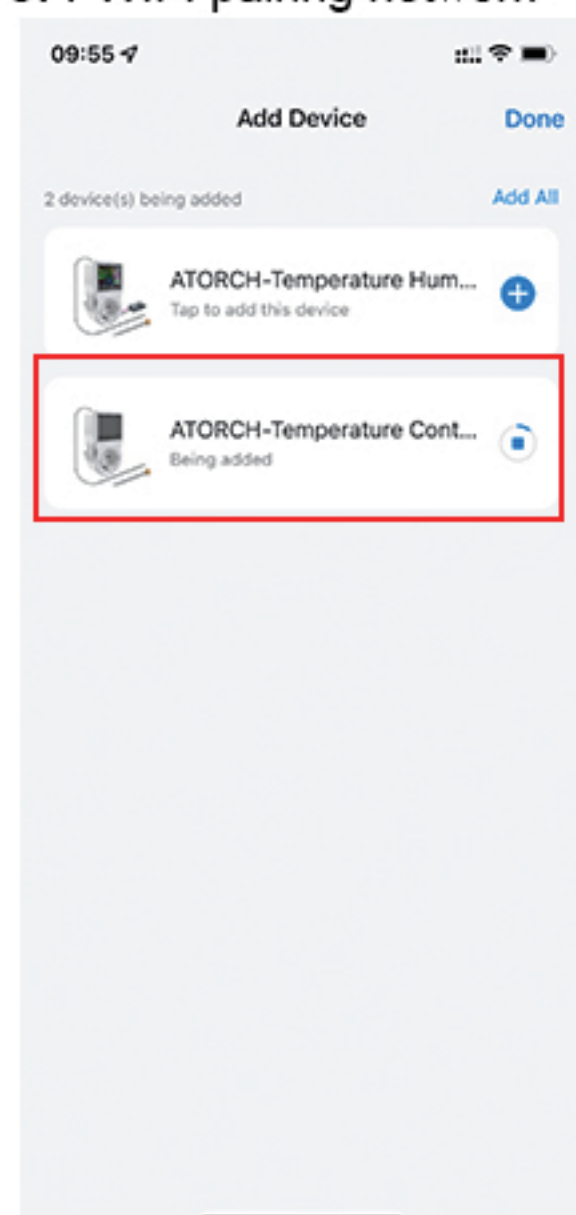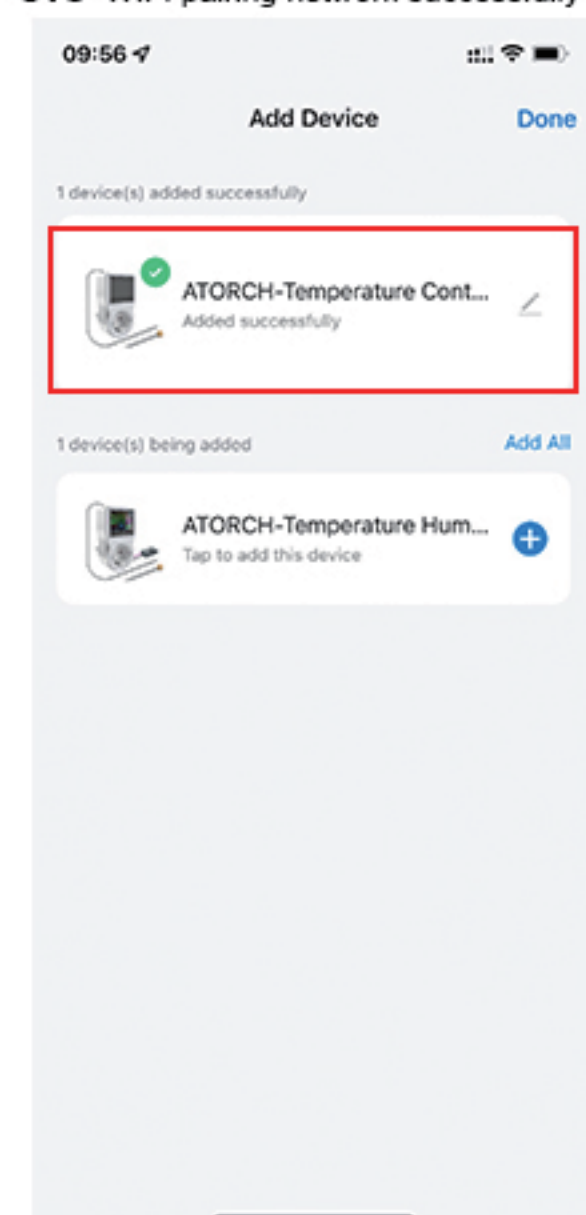
3.1 Add device
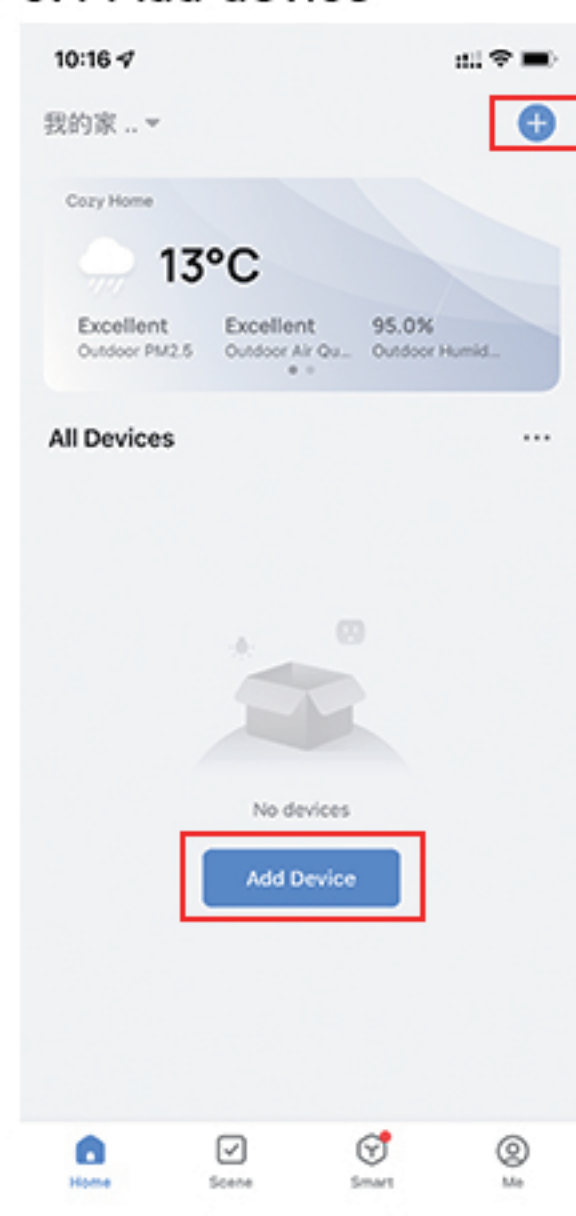
3.2 discover device
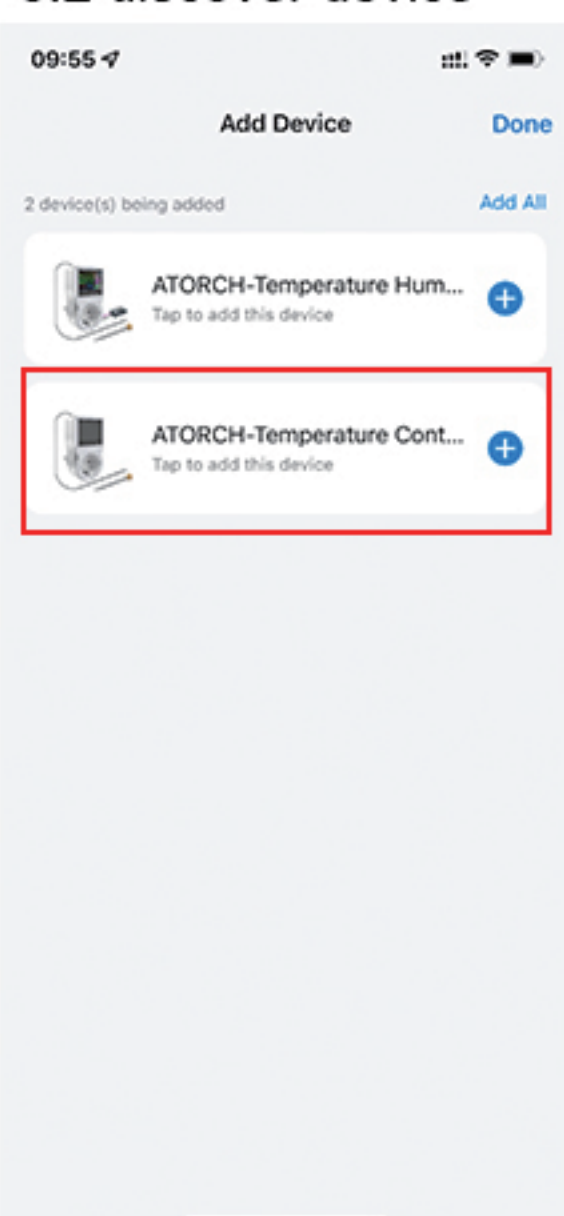
3.3 Enter WIFI account and password
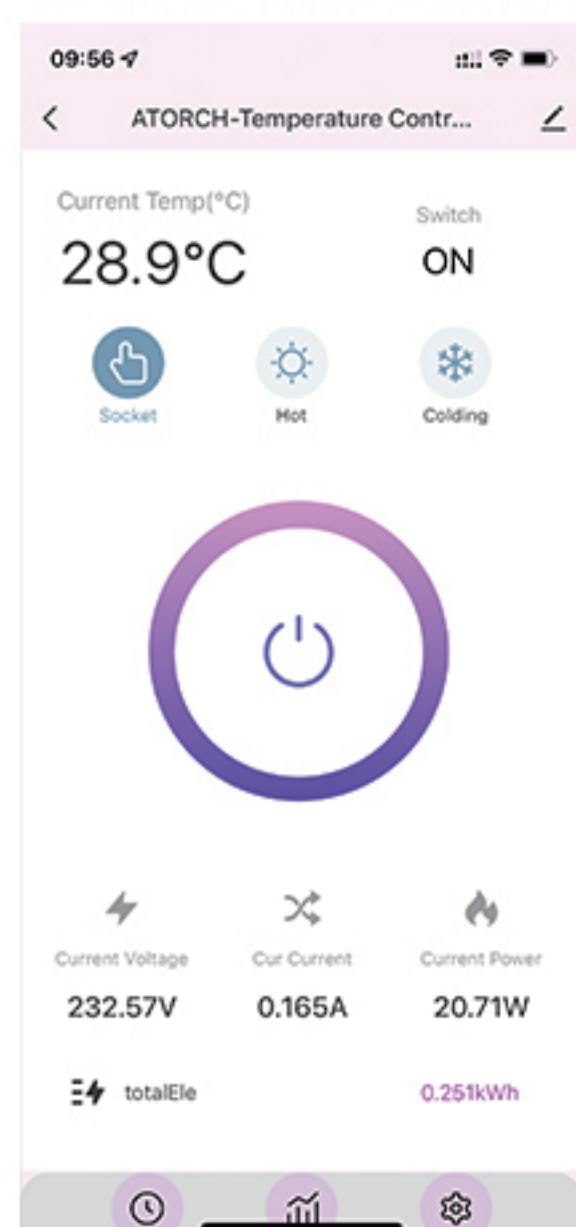

3.4 WIFI pairing network

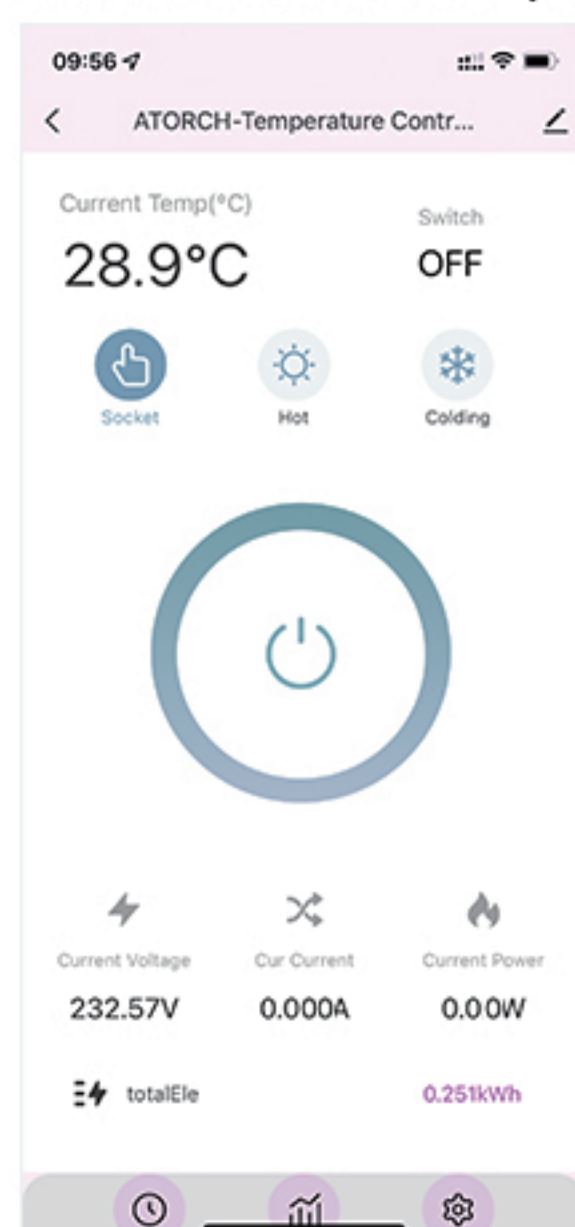### 3.5 WIFI pairing network successfully

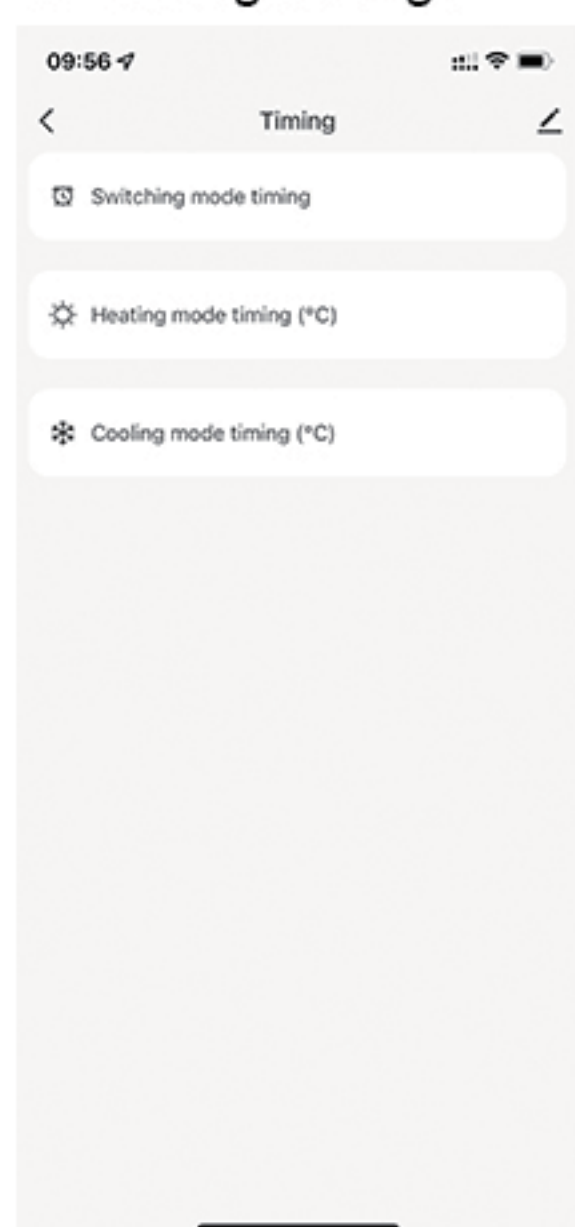

3.6 Enter the APP display interface

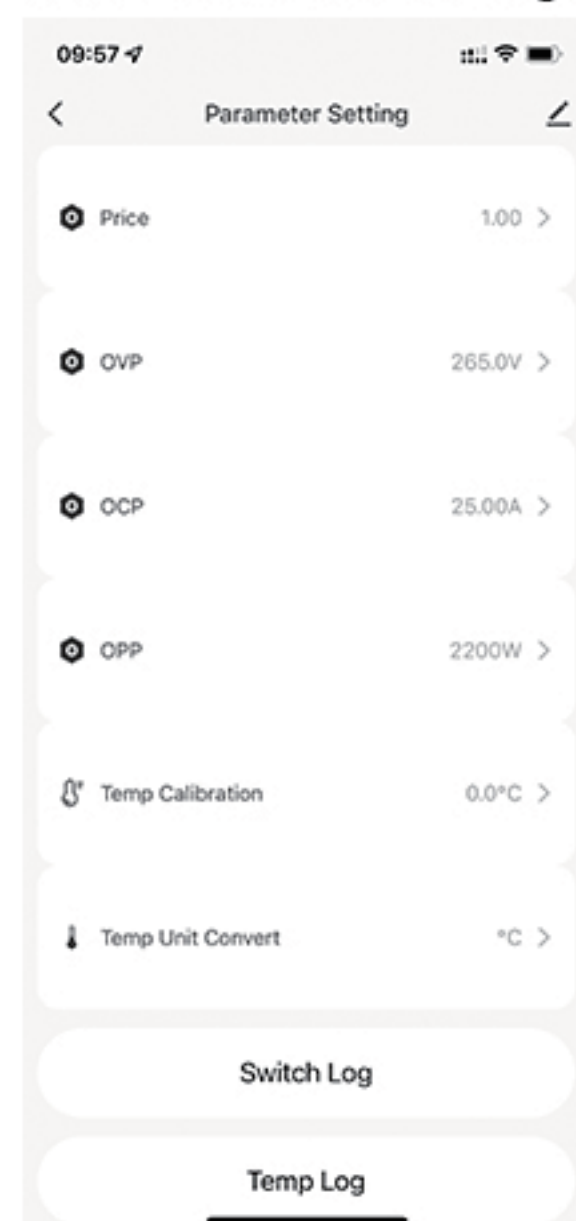### 3.7 Remote control on and off via APP

3.8 Shut down the device remotely via APP

3.9 Timing settings

3.10 Parameter settings

3.11 Temperature log
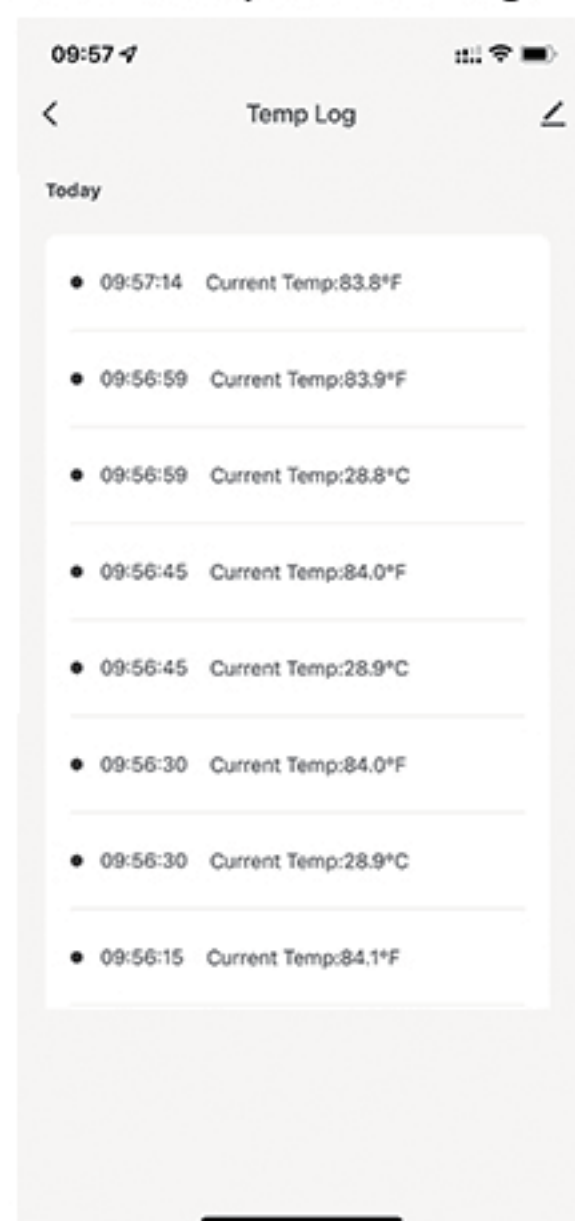
3.12 Diagram curve

Switch (ON/OFF)

09:56

< ATORCH-Temperature Contr... ✎

Current Temp(°C)

28.9°C

Switch

ON

👆 Socket   ☀ Hot   ❄ Colding

⏻

Current Voltage
232.57V

Cur Current
0.165A

Current Power
20.71W

⚡ totalEle   0.251kWh

Heating mode

10:24

< ATORCH-Temperature Contr... ✎

Current Temp(°C)

27.2°C

Switch

ON

👆 Socket   ☀ Hot   ❄ Colding

❄ Heating Start Temp
subTitle   28.0°C

— **28.0** +

❄ Heating Stop Temp
subTitle   30.0°C

— **30.0** +

(The stop temperature must be at least one degree higher than the start temperature)

Current Voltage
233.78V

Cur Current
0.168A

Current Power
20.80W

⚡ totalEle   0.254kWh

Cooling mode

09:56

< ATORCH-Temperature Contr... ✎

Current Temp(°C)

28.9°C

Switch

ON

👆 Socket   ☀ Hot   ❄ Colding

❄ Cooling Start Temp   -10.0°C

— **-10.0** +

❄ Cooling Stop Temp
subTitle   -20.0°C

— **-20.0** +

(The stop temperature must be at least one degree lower than the start temperature)

Current Voltage
233.05V

Cur Current
0.165A

Current Power
20.74W

⚡ totalEle   0.250kWh