XY5008-S Instruction manual

Digital controlled DC power supply XY5008 step-down type

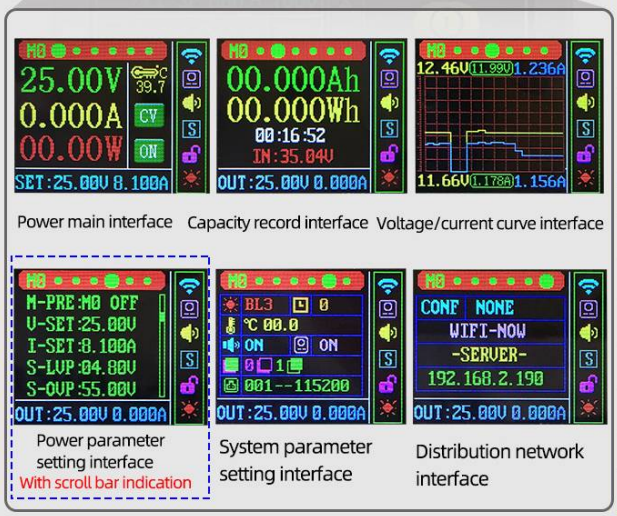
Second-generation large screen, new architecture,
synchronous rectification, step-down module, typical efficiency 95%

Minimal operation + remote control digital keyboard control, efficient and fast!

Upgraded version of the second generation, with full viewing angle 1.8 inch large screen display, high resolution

You can see a clear and natural picture no matter at any angle!

6.0~55.00V	0.0~50.00V	0.0~8.100A	400W	10group
Input voltage	Output voltage	Output current	Output Power	Storage space



Power main interface | Capacity record interface | Voltage/current curve interface

Power parameter setting interface
With scroll bar indication

System parameter setting interface

Distribution network interface

Product parameter	
Input voltage:	DC6.0~55V (Ultimate low voltage 5.5V, extreme high voltage 60V
Output voltage:	DC 0.0V~50V
Output current:	0.000A~8.100A
Output Power:	0~400W
Typical output ripple:	Vpp-150mv
Voltage resolution:	0.01V
Current resolution:	0.001A
Voltage accuracy:	±0.4%+1 byte
Current accuracy:	±0.5%+3 bytes
Capacity:	0-999999AH
Energy:	0-999999WH
Time:	0-1000 hour

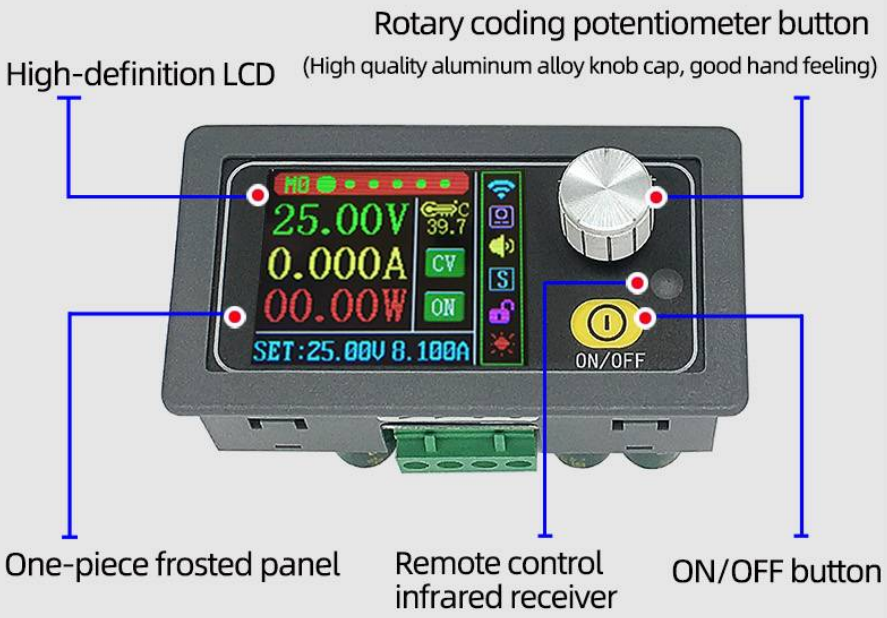
Has a nearly perfect protection mechanism:

Hardware protection:Input anti-reverse connection protection, output short-circuit protection, short circuit does not burn.

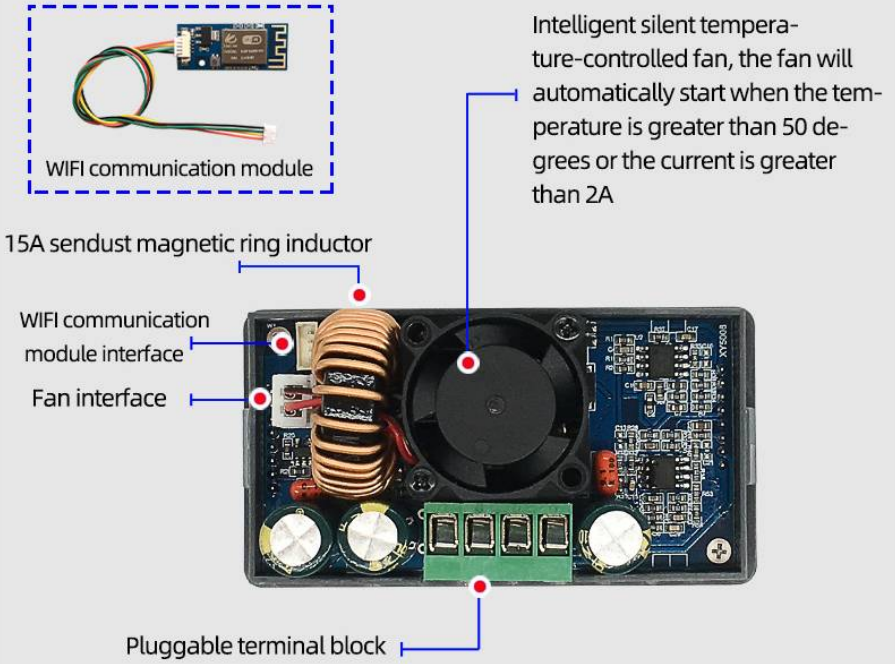
Software protection:Over voltage protection (OVP), over current protection (OCP), over power protection (OPP), over temperature protection (OTP), input under voltage protection (LVP)

Note: This product is a DC step-down digitally controlled regulated power supply, that is, the output voltage must be lower than the input voltage (pressure difference> 0.05% + 1V). Do not use it with AC or when the input voltage exceeds the voltage range.

Product structure: exquisite workmanship / exquisite products / industrial quality / minimalist operation



Intelligent silent temperature control fan, automatic start and stop

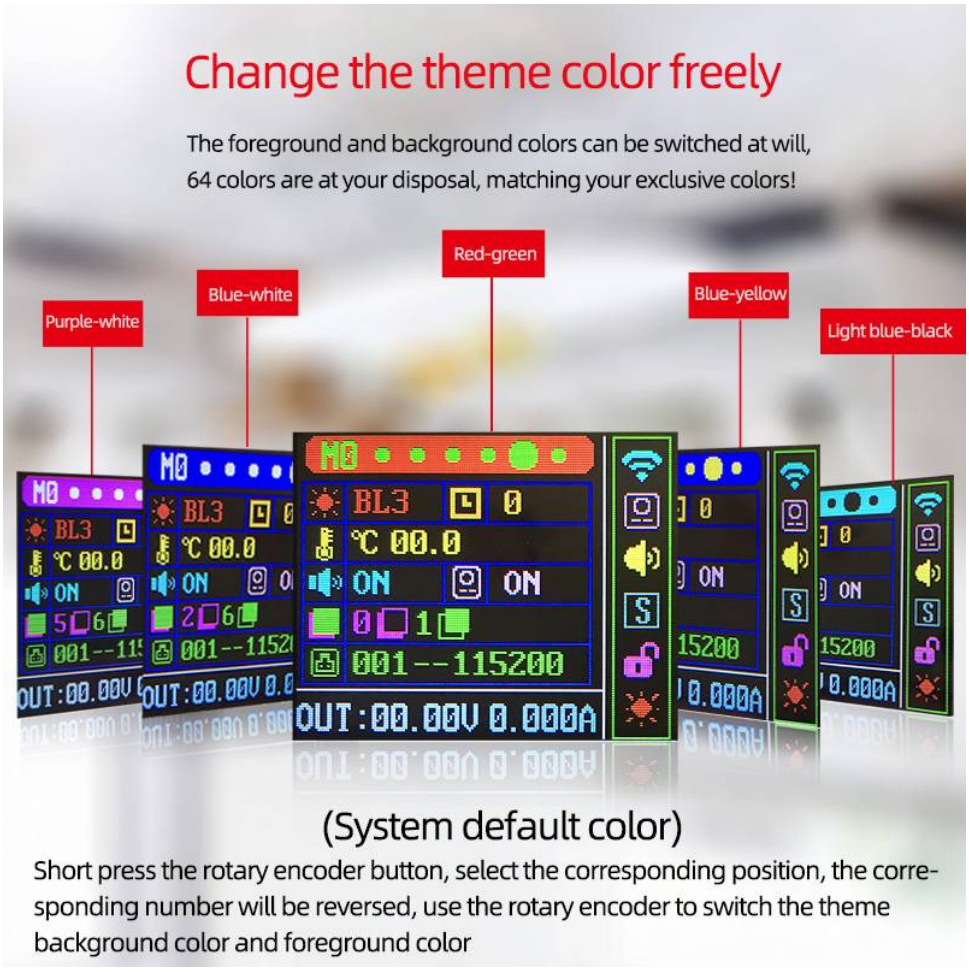


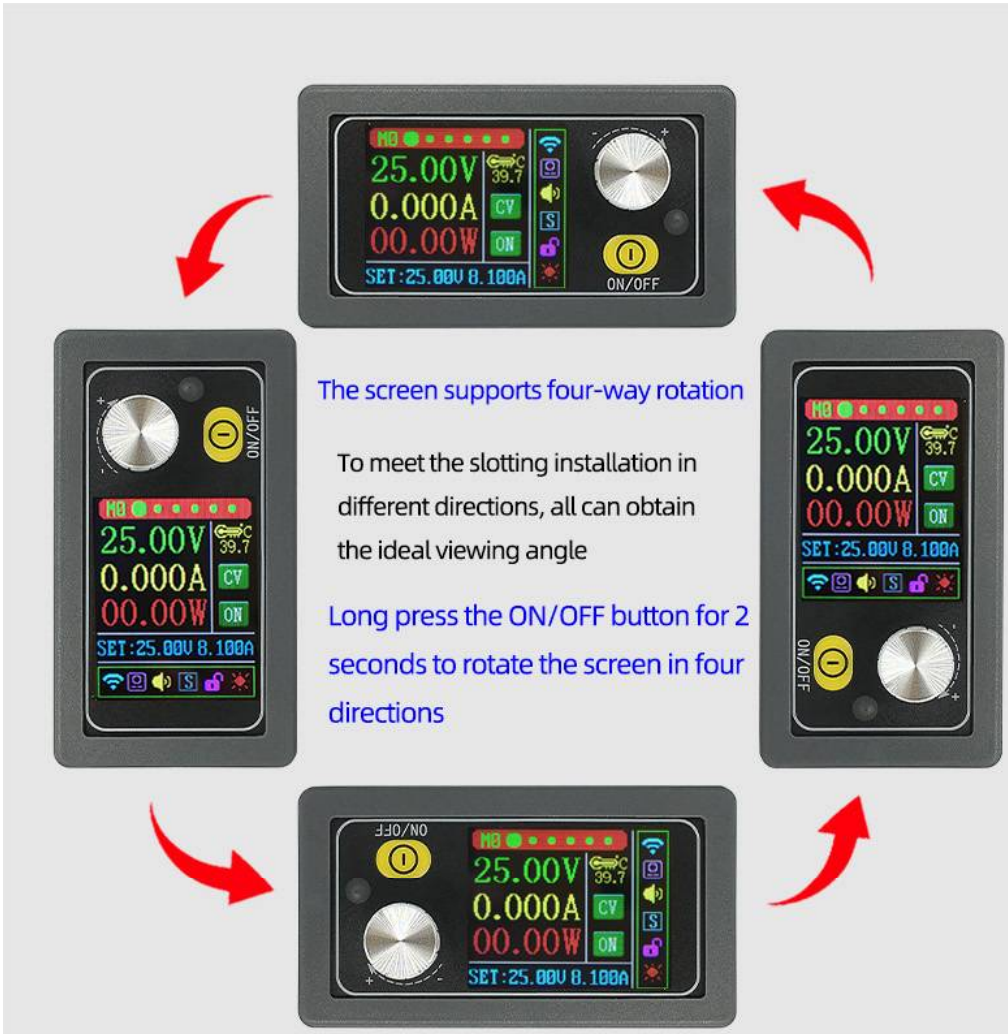
Note: The temperature sensor/fan and other interfaces on the motherboard are not allowed to connect to non-original accessories to prevent burning the host!

WiFi not supplied with this standard version.

Generation 1.44 inch LCD screen

Second generation 1.8 inch large screen LCD + remote control digital keyboard control

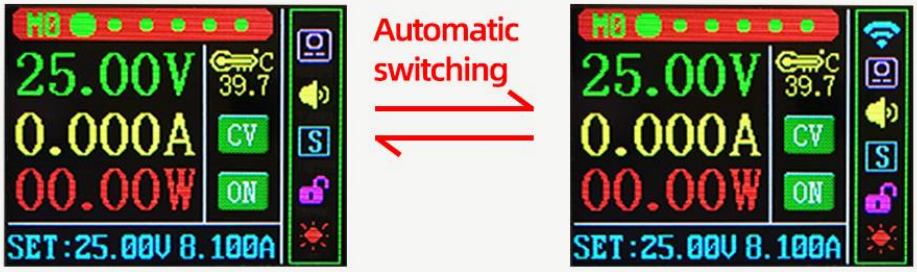




Demonstration of horizontal and vertical screen usage

Intelligent interface system

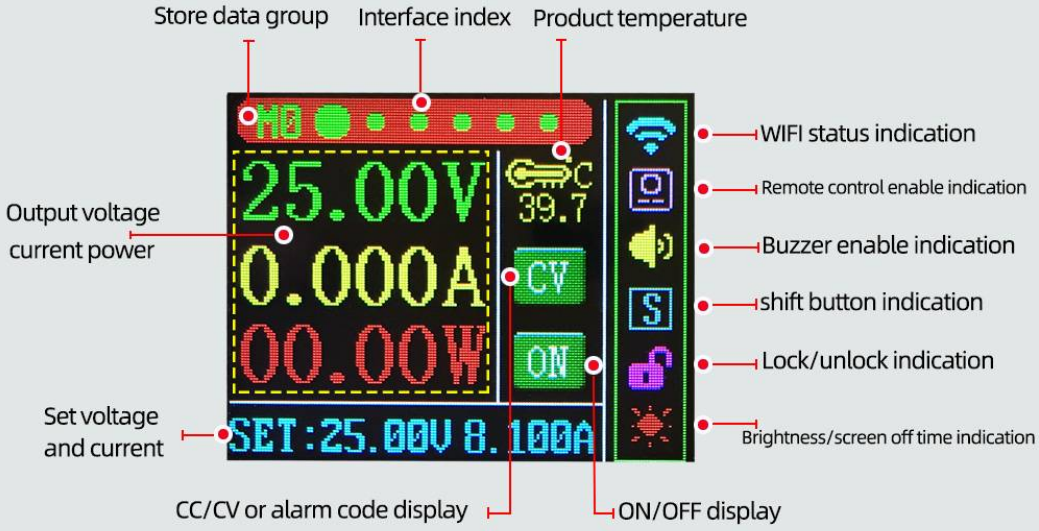
After inserting the Wifi module, the interface will automatically switch to the interface with communication, after unplugging the Wifi module, the interface will automatically switch back to the interface without communication.



Without Wifi communication interface

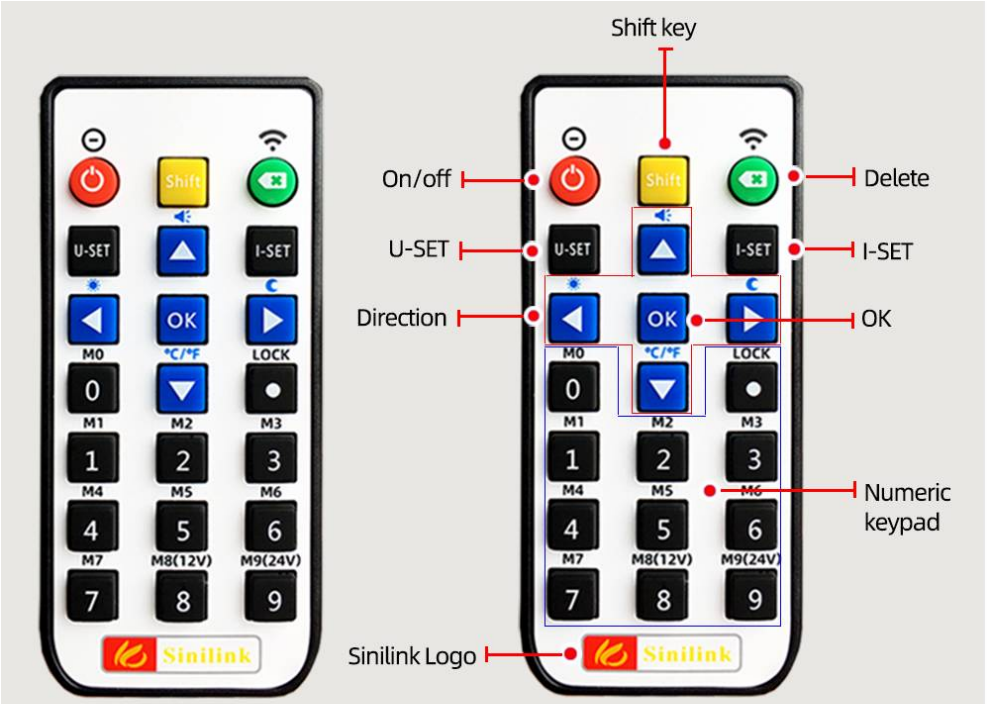
With Wifi communication interface

Main interface introduction:




Special remote control for CNC power supply
CNC power supply enters the era of remote control and digital keyboard control
Shift
U-SET
I-SET
OK
°C/°F
M0
LOCK
0
M1
M2
M3
1
M4
2
M5
3
M6
4
M7
5
M8(12V)
6
M9(24V)
7
8
9
Sinilink
Silicone buttons
Numeric keypad
Efficient and fast
Full functioning


Shift
U-SET
I-SET
OK
°C/°F
M0
LOCK
0
M1
M2
M3
1
M4
2
M5
3
M6
4
M7
5
M8(12V)
6
M9(24V)
7
8
9
Sinilink



Key and function description

ON/OFF	Turn on/off power output	Delete	Delete/return
U-SET	Set voltage	I-SET	Set current
Shift	Function key Shift	OK	Confirm/select
Direction	Up and down adjustment, left and right shift/page turning		
Numbers	Digital input: For example, to set the voltage, click U-SET and click OK on the numeric keyboard "12.5" to complete the voltage setting operation		
Shift+	Power on/off	Shift+	Fast distribution network
Shift+	Turn on and off the buzzer	Shift+	Switching between Celsius ℃ and Fahrenheit °F
Shift+	Brightness adjustment (B0~B5, 6-block brightness)	Shift+	Set screen off time (0-9 minutes)
Shift+	Lock/unlock keys	Shift+	Quickly recall data group M0~M9

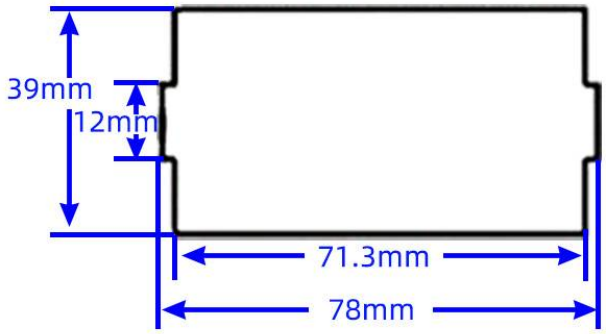
Note: 1: Brightness adjustment B0~B5 can directly input the numbers "0~5" or adjust by " ".

2: The screen-off time (0-9 minutes) can be directly input the number "0-9" or can be adjusted by " "

3: M8/M9 are 12V/24V for quick transfer, used for 12V/24V electric soldering iron temperature adjustment or fan speed adjustment.

Product Size

The recommended opening size is as shown below



Introduction of high configuration version XY5008-W

The product is connected to the network through router 2.4G WiFi, with direct through transmission of internal network, real-time communication, and external network server. Therefore, data can be controlled and viewed anytime and anywhere as long as the network status and unlimited distance are unlimited.

APP download address:

Apple IOS: search in the Apple store: Xinyilian or sinilink

Android:
https://m.pp.cn/detail.html?ch_src=pp_dev&appid=7921907&ch=default or download from the official website: http://www.sinilink.com/release.apk

Or download the APP on your mobile phone: PP Assistant, search for 'Xinyilian' to download in PP Assistant or scan the code to download the APP

(Note: Android major mainstream markets have been put on the Xiaomi market, and the Huawei market has recently been put on the shelves)

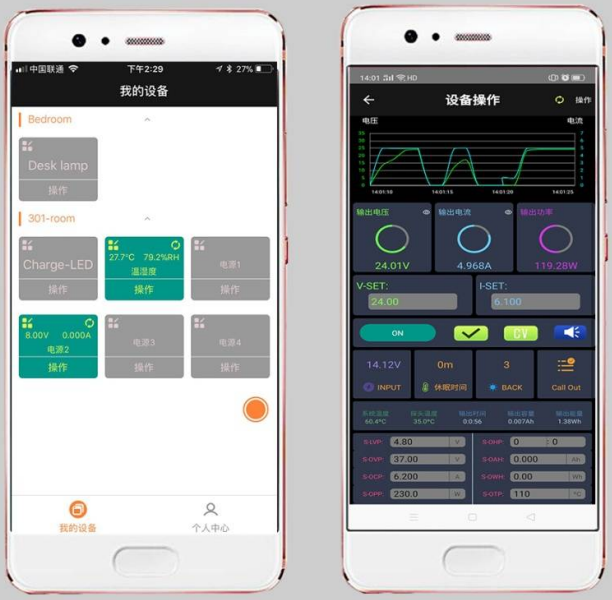
For foreign customers, please download from Google Market, search for 'sinilink' to download

Computer client software download address:

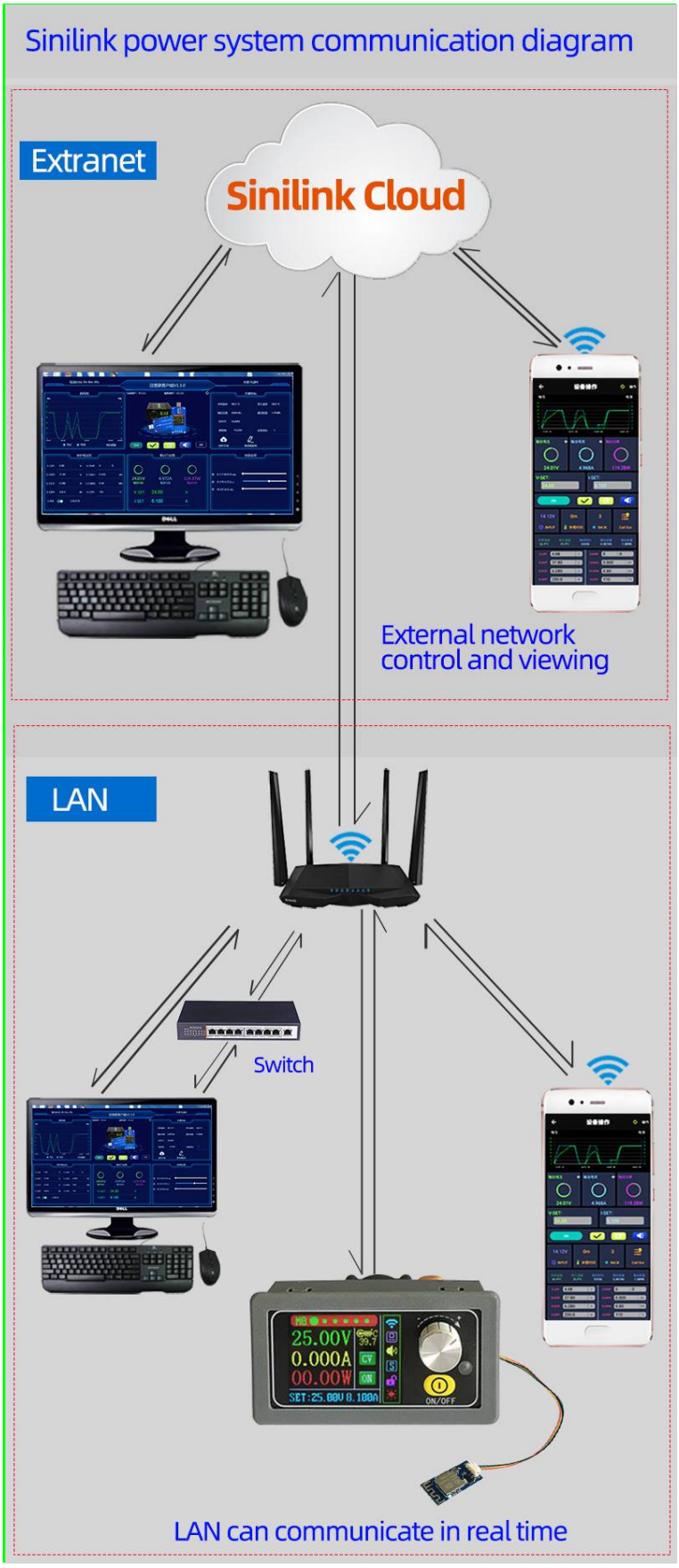
http://www.sinilink.com/download/tools/Sinilink-Setup.exe

Multiple devices can be added to the app interface to support Android and IOS systems.

Mobile APP interface



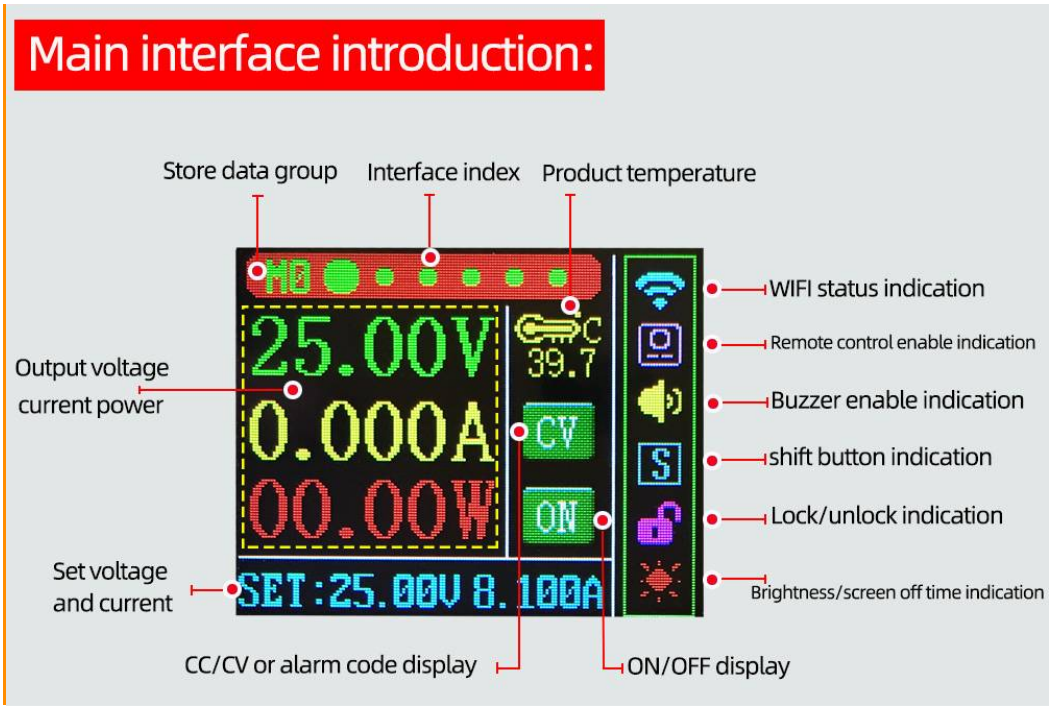
Computer client interface


Sinilink power system communication diagram
Extranet
Sinilink Cloud
External network
control and viewing
LAN
Switch
25.00V
0.000A
00.00W
SET:25.00V 0.100A
ON/OFF
LAN can communicate in real time

Detailed interface and key functions:

Short press the 'ON/OFF' button to turn on and off the power output, long press the 'ON/OFF' button for 2 seconds, the screen rotates and can be rotated 360° in four directions.

Rotate the encoder potentiometer to realize fast page turning.



Short press the code potentiometer button to activate the parameter (voltage/current) to be set;

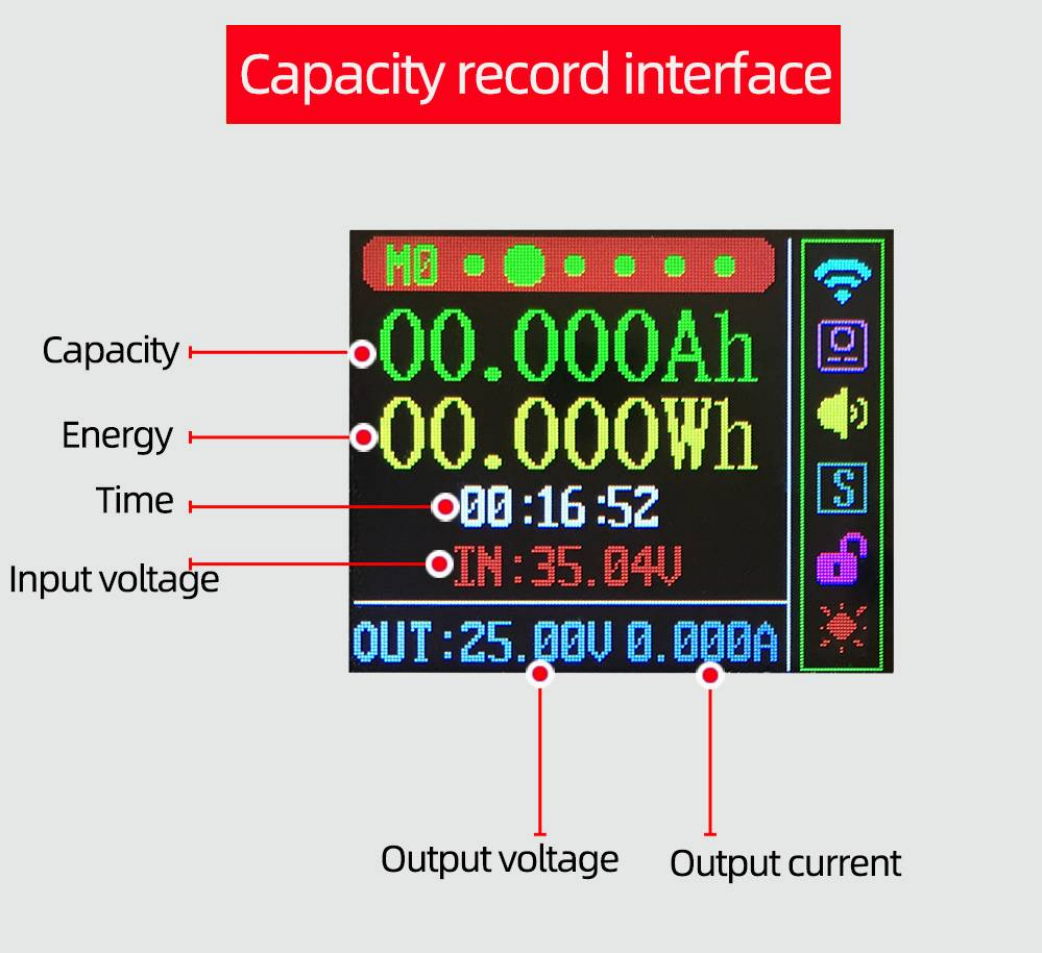
Switch between full selection and bit selection by short pressing the code potentiometer button;

After selecting all, all will be displayed in reverse blue, and the set voltage/set current can be switched through the rotary encoder;

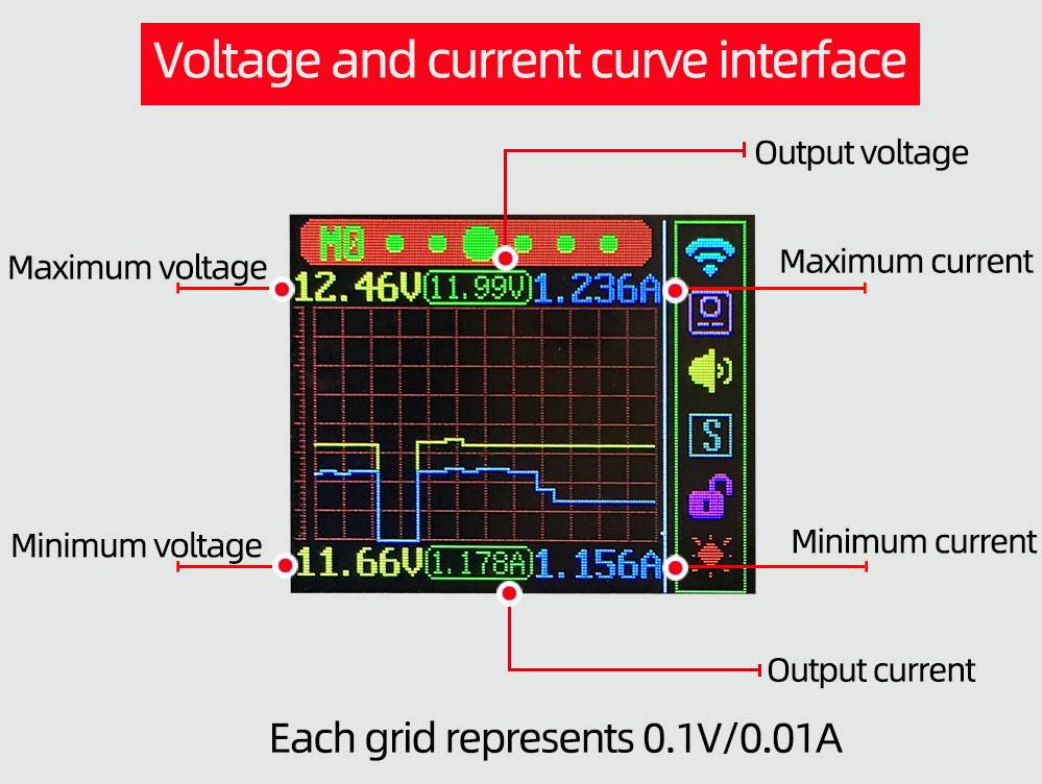
After the bit is selected, the corresponding bit will be displayed in reverse blue, and the parameters can be set through the rotary encoder;

After the setting is completed, long press the code potentiometer button for 2 seconds or no button operation for more than 6 seconds will automatically exit the setting;

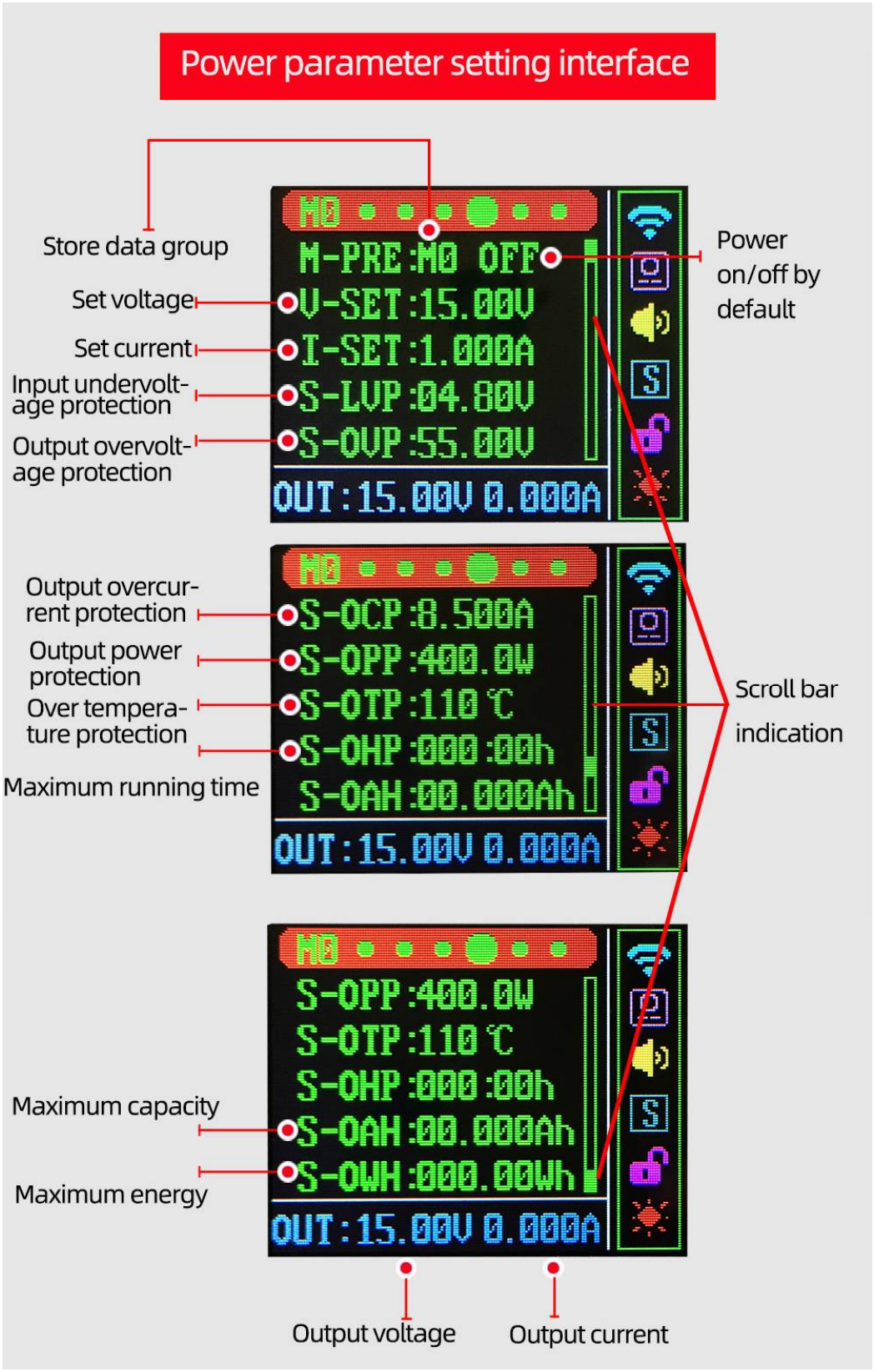
All parameters are automatically saved after exiting.



Short press the code potentiometer button, select all'capacity/energy/time', and the corresponding one will be displayed in reverse blue after all selections. Use the rotary encoder to switch the parameter to be cleared. After selecting, short press the code potentiometer button. Clear the corresponding parameter; after selecting, long press the code potentiometer button for 2 seconds or no key operation for more than 6 seconds will automatically exit.



Short press the code potentiometer button to pause/start curve writing



Short press the code potentiometer button to activate the parameter to be set;

Switch the parameter name and position selection by short pressing the key of the code potentiometer;

After selecting the parameter name, the parameter name will be displayed in reverse blue, and the parameter to be set can be switched by rotating the encoder potentiometer;

After the bit is selected, the corresponding bit will be displayed in reverse blue, and the parameters can be set through the rotary encoder;

After the setting is completed, long press the code potentiometer button for 2 seconds or no button operation for more than 6 seconds will automatically exit the setting;

All parameters are automatically saved after exiting.

Data group function description：

You can save a total of 10 data groups M0-M9, and save to data group M0 by default. Press and hold the code potentiometer button for 2 seconds on any interface to quickly call up the M1/M2 data group. The current data group number will be displayed at the interface index. ；

In the power supply parameter setting interface, after selecting the data group, rotate the encoder potentiometer to adjust the corresponding data group;

After the parameters in the data group are modified and exited, the corresponding parameters will be stored in the current data group by default.

Note：The power output is turned off by default after switching the data group；

Set voltage U-SET: 0-50.00V;

Set current I-SET: 0-8.1A;

Input undervoltage protection LVP default: 4.8V, can be set by yourself;

Output overvoltage protection OVP default: 51V, can be set by yourself;

Output overcurrent protection OCP default: 8.2A, can be set by yourself;

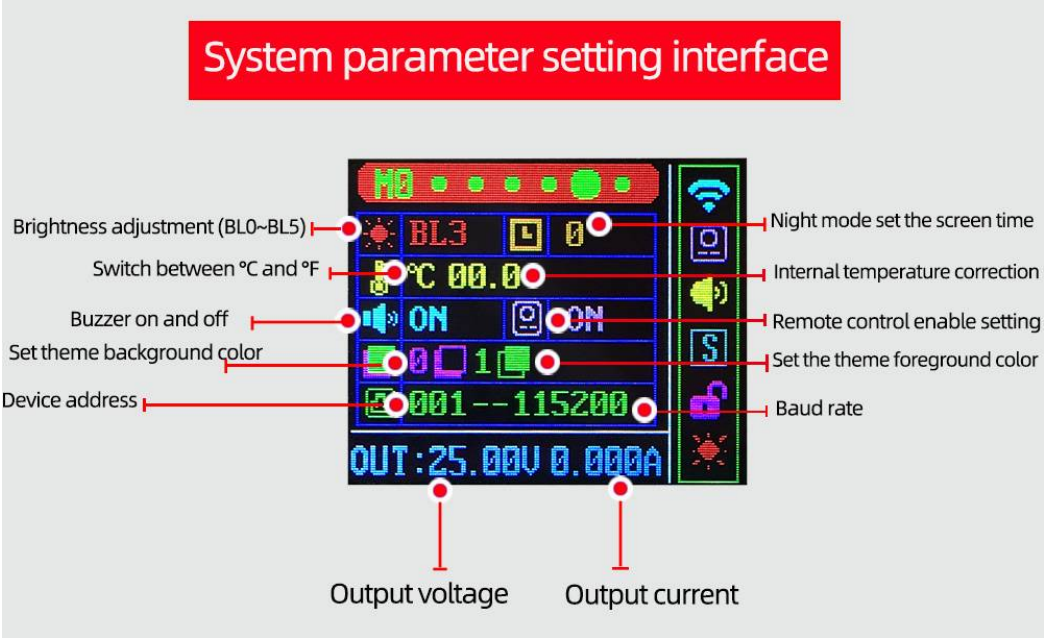
Output over power protection OPP default: 410W, can be set by yourself;

Maximum operating time OHP: When the parameter is not set to 0, turn on this function, and when it runs for the set time, the power supply will automatically turn off the output;

Maximum capacity OAH: When the parameter is not 0, turn on this function, when the capacity reaches the set parameter, the power will automatically turn off the output;

Maximum energy OWH: When the parameter is not 0, turn on this function. When the energy reaches the set parameter, the power will automatically turn off the output;

OHP/OAH/OWH function can well realize timing/quantitative power supply.

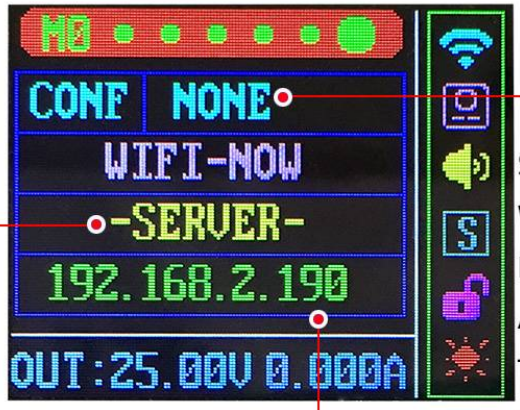


Short press the code potentiometer button to select/switch the parameter to be set. After selecting, the parameter will be reversed and set the parameter through the rotary encoder;

After the setting is completed, long press the code potentiometer button for 2 seconds or no button operation for more than 6 seconds will automatically exit the setting;

All parameters are automatically saved after exiting.

Distribution network interface



Set the pairing mode of the WiFi module:
NONE: not set;
AP: Enter AP pairing mode
TOUCH: Enter Touch pairing mode

When the module is connected to the network, it displays its own IP address.

Display the current status of the WiFi module;
NULL: failed to access the router;
TOUCH: Touch pairing mode;
AP: AP pairing mode;
ROUT: successfully connected to the router;
SERVER: successfully networked and went online;

Short press the code potentiometer button to select the pairing mode of the wifi module. After selecting, the parameters will be reversed, and the pairing mode of wifi can be selected by rotating the encoder;

After the setting is completed, long press the coding potentiometer button for 2 seconds or no button operation for more than 6 seconds will automatically exit the setting; the wifi module will automatically configure the network according to the selection。