WIFI module configuration manual

I: Introduction

Wireless WIFI function has been installed on solar inverter. Inverter can connect to wireless router through inside WIFI module. This module can receive inverter data and send them to users' phone or laptop, which is convenient to users to monitor their inverters.

II: Inverter Appearance

WIFI module has been installed inside of the inverter. Above picture shows WIFI antenna.

III: WIFI Module Configuration

Make sure the WIFI module has been installed in your inverter. Configuration can be started after inverter connects to mains.

Prepare wireless equipment, laptop, pad or phone.

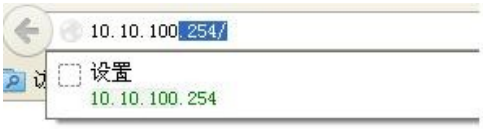
3.1 Computer wireless network settings

After opening the computer's wireless network settings page, Set the wireless connection to obtain an IP address and DNS server address automatically and then view the wireless network, refresh the wireless network, find module WIFI signal and connect. WIFI module doesn't have default password, the user can be set in the settings page after logging in. Details will be described below.

3.2 WIFI Parameter settings

Open browser and input URL: 10.10.100.254 then input user name and password. Both defaults are: admin.

Tip：Supported browser: IE8+, Chrome 15+, Firefox 10+



Input WIFI module IP address

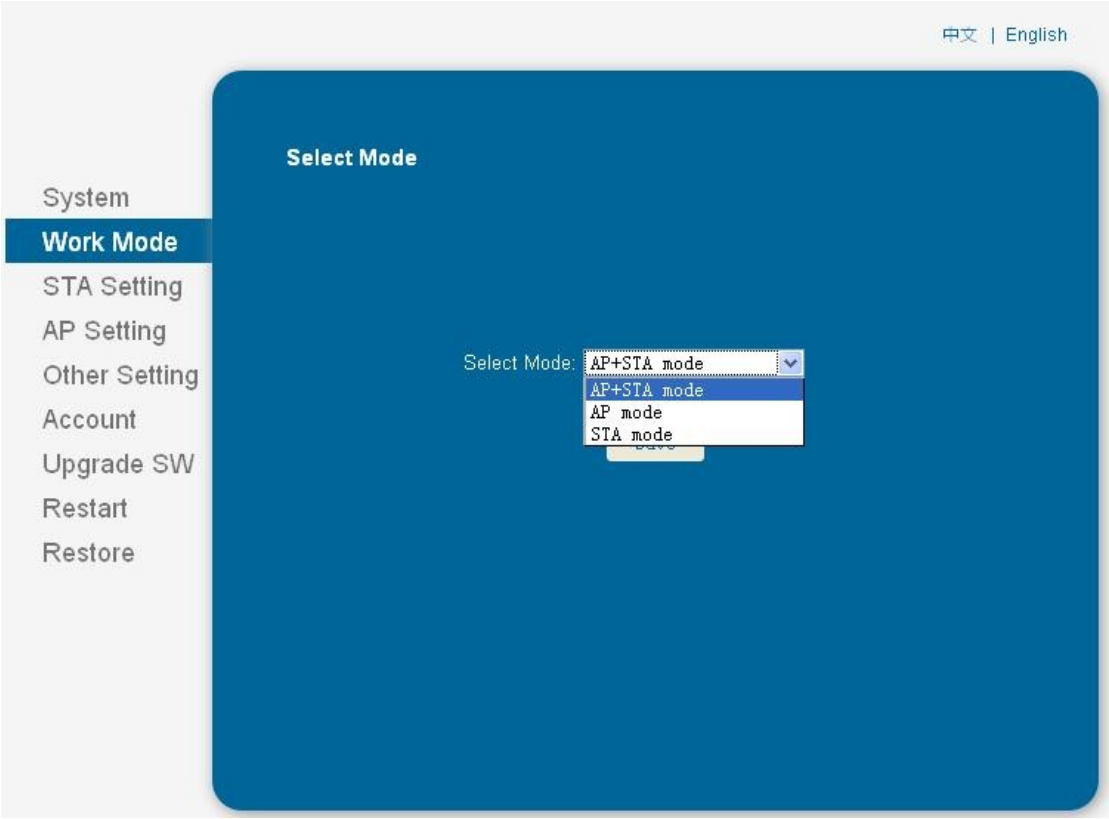
Input User and Password

3.2.1 System information

System information

After enter system interface, you can view WIFI module parameter configuration.

3.3.2 Work mode settings

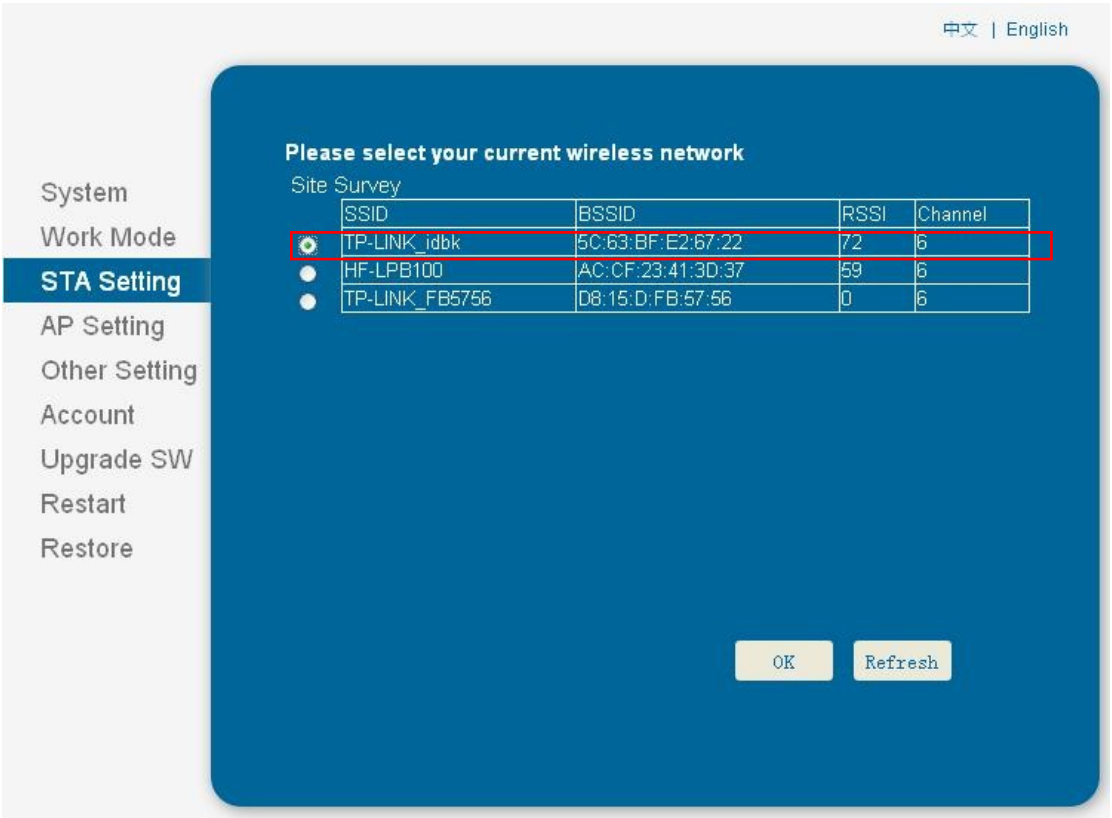


- There are AP mode, STA mode, AP+STA mode inside WIFI module.
- AP mode: WIFI module as access point, other WIFI equipment connects to it;
- STA mode: WIFI module as Station, which will connect to other WIFI routers.
- AP+STA mode: WIFI module can connect to other WIFI router WIFI routers and send WIFI signal itself as well. User can connect to this module to configure parameter after login inside website through phone or laptop.
- AP+STA mode is recommended.

3.3.3 Collector fast settings in STA Setting

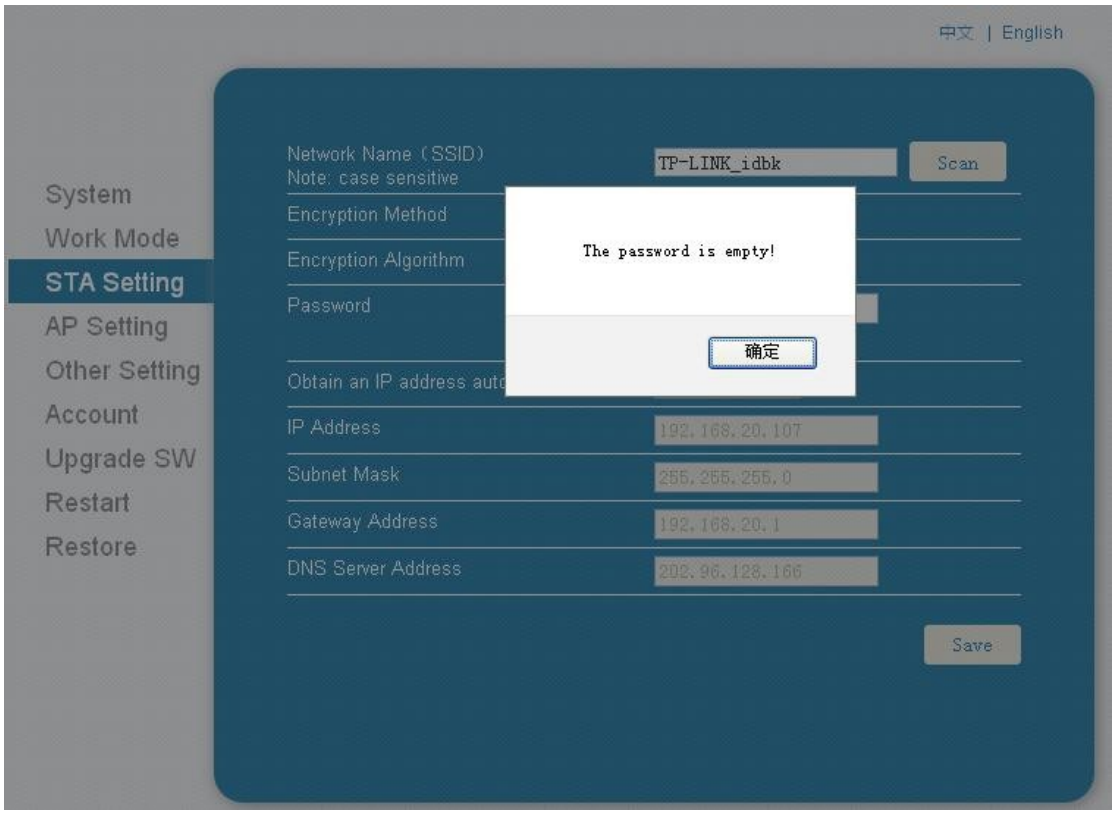
Click “Scan” to search router which you want to connect

Select your wireless network and click “OK”.

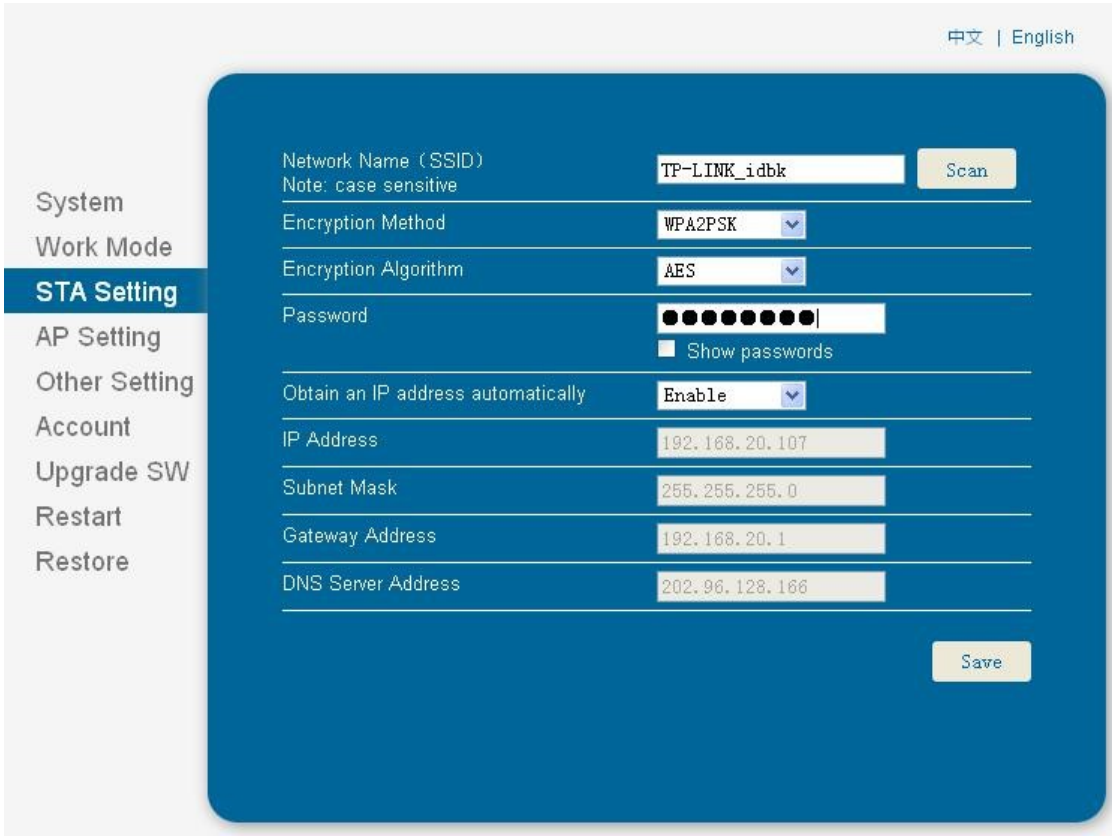


If you can’t find your needed wireless network, click “refresh” and try again.

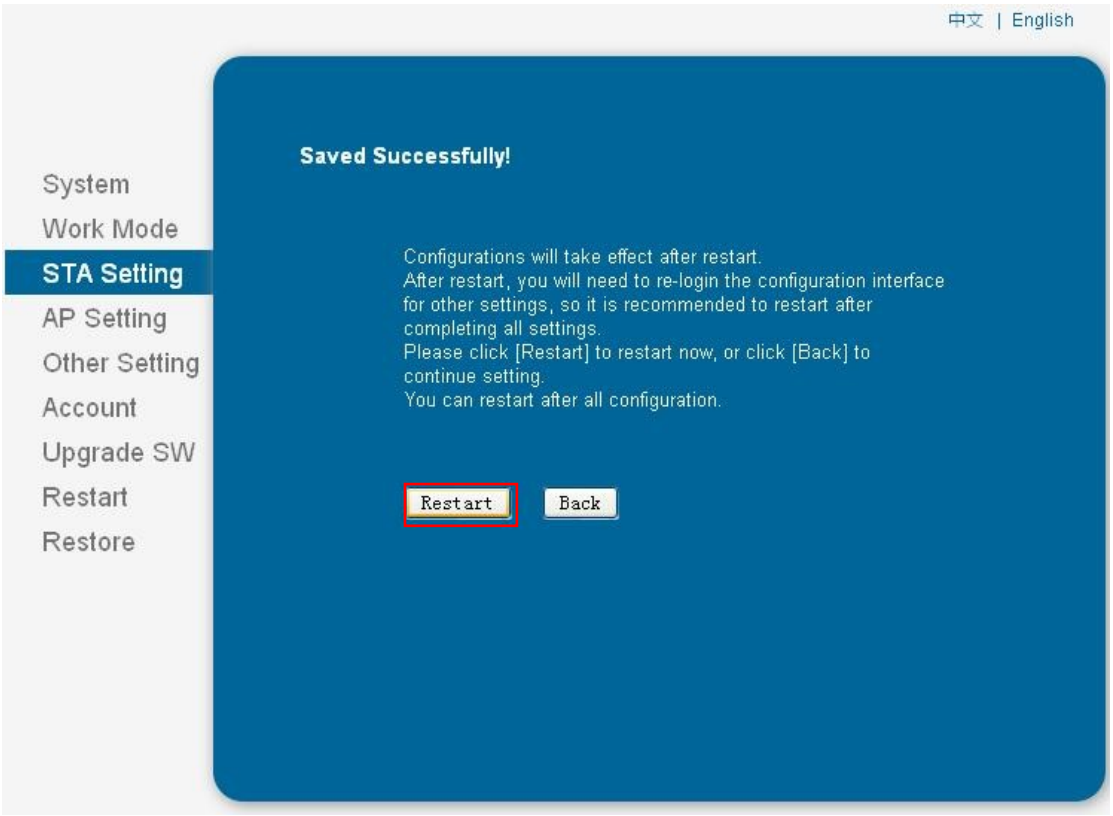
Input password.



After input, click “Save”.

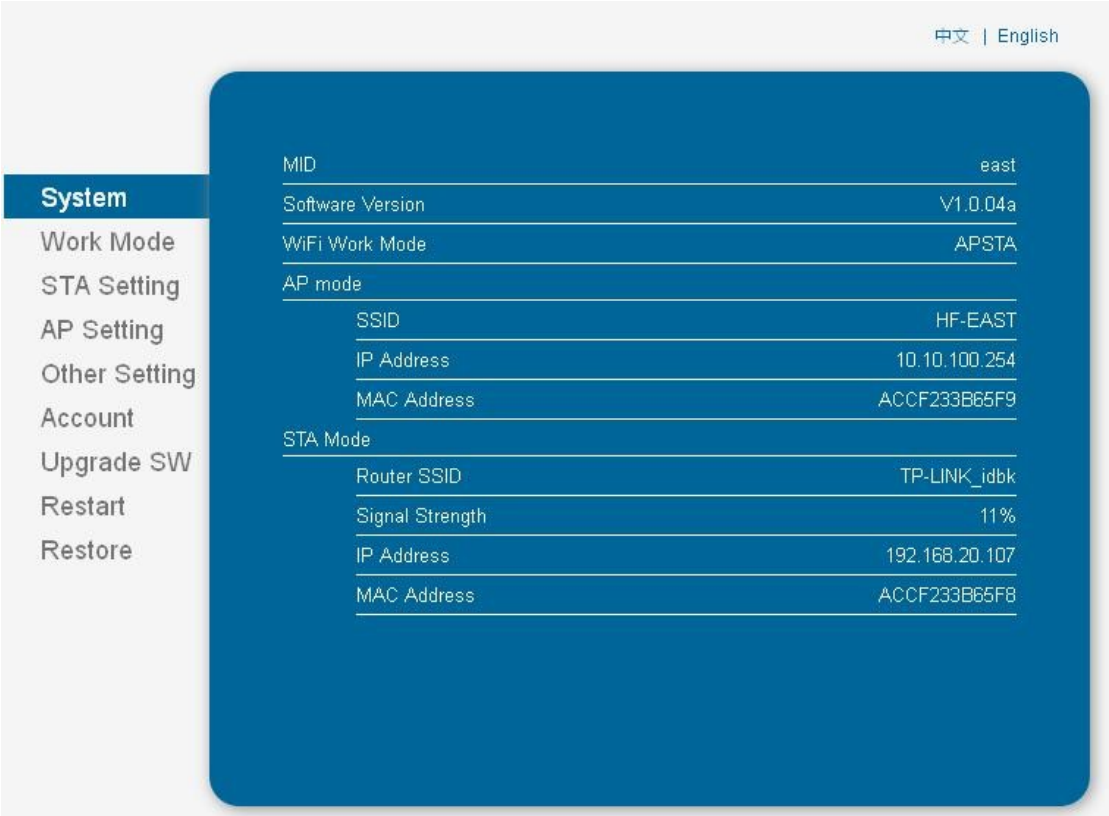


After Saved successfully, click “Restart”.



Notice: Settings only can be effect after restart.

After restart, re-enter system settings interface, click system and you can view set up parameter.



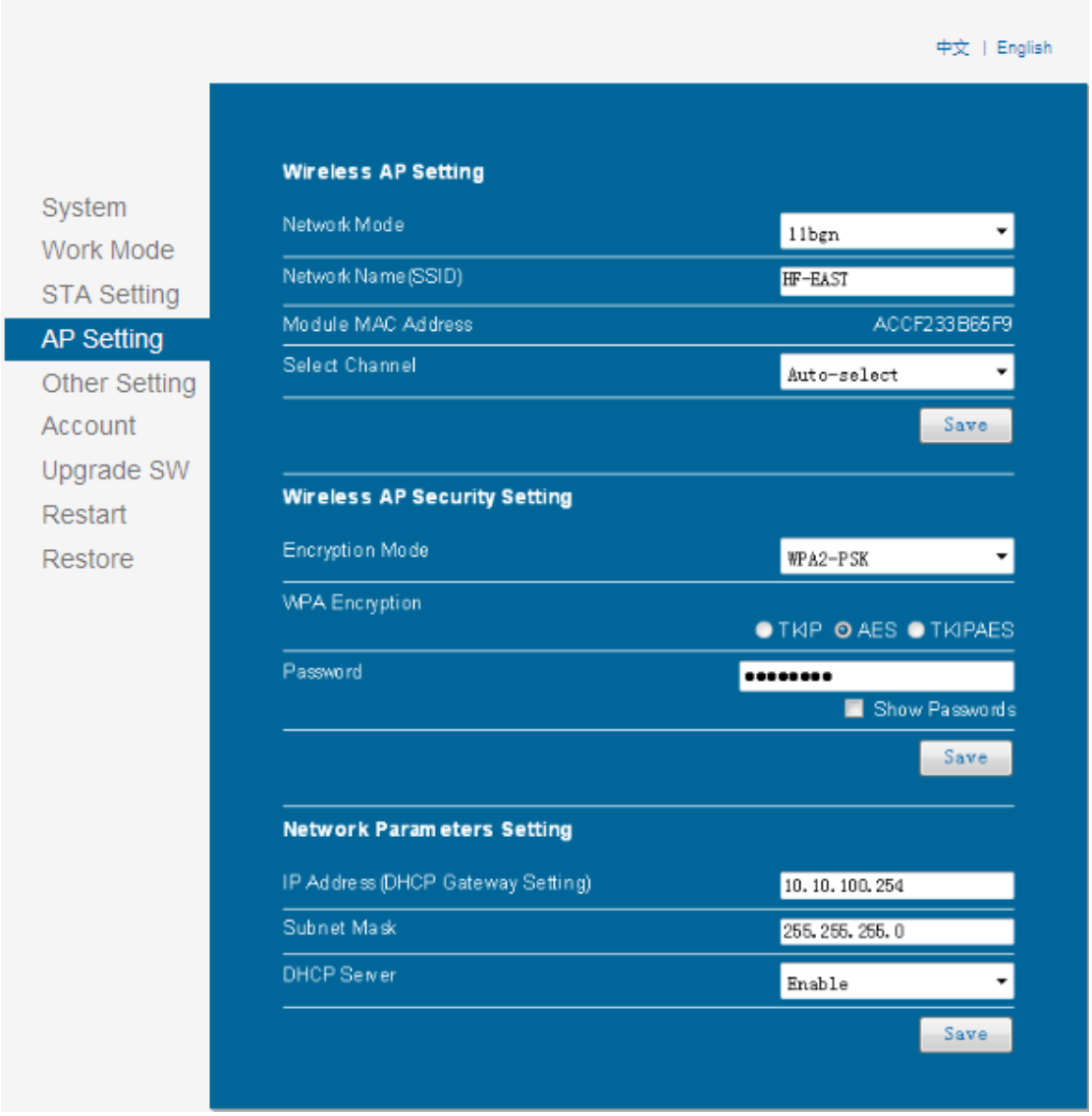
- After network settings, AP STA mode will take effect. Router information will show in STA mode column;
- Router SSID: Name of connected router;
- Signal Strength: connected router's signal strength;
- IP address: WIFI module's IP address, automatically assigned by router. When WIFI module pairs corresponding RS485 communication address inverter well, often off the router is not recommended. It will change the WIFI module IP address, which will cause inverter not correspond. When such a situation occurs, it should be re-login WIFI module, view the IP address.
- MAC address: The MAC address of this WIFI module.

WIFI module configuration on cell phone (Android, IOS)

3.3.4 connect solar inverter through mobile phone

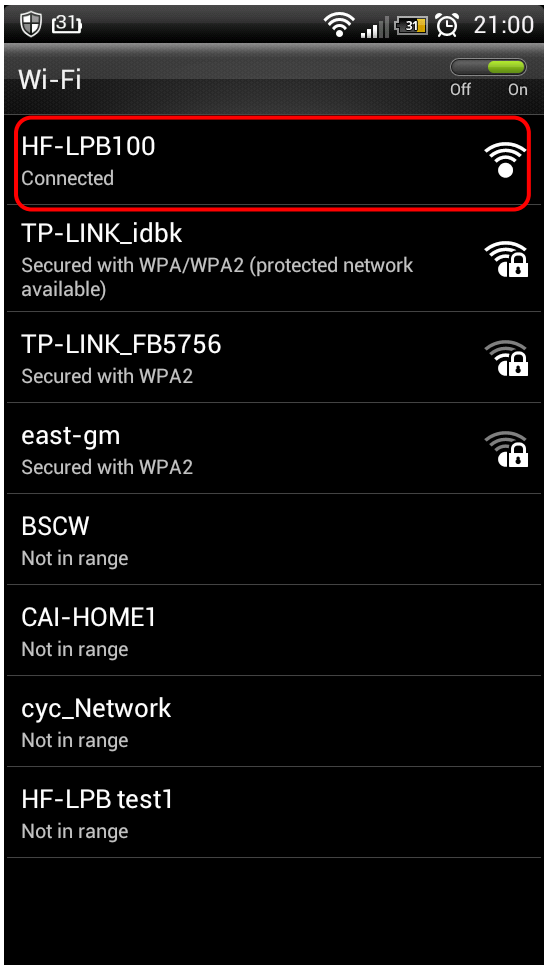
Notice:inverter wifi hostspot in AP modular support connect only one phone in the same time.

There is no password in AP modular by default,suggest set password in the method below:In the area “Wireless AP Security Setting”,select “Encryption Mode” to WPA2-PSK,in the “Password” column,input the password then click “save” button.The graph is as below:

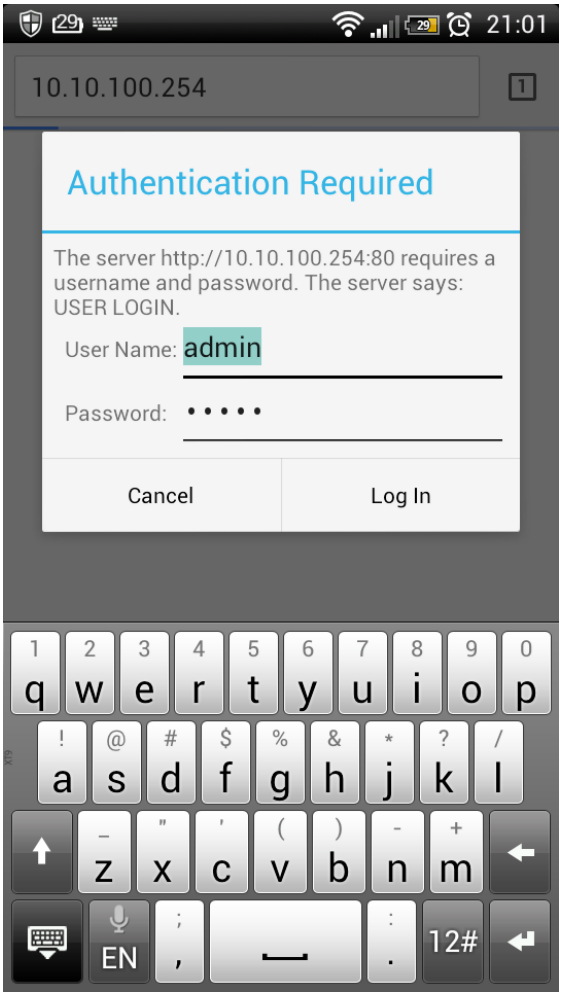


3.4 connect solar inverter through wireless router

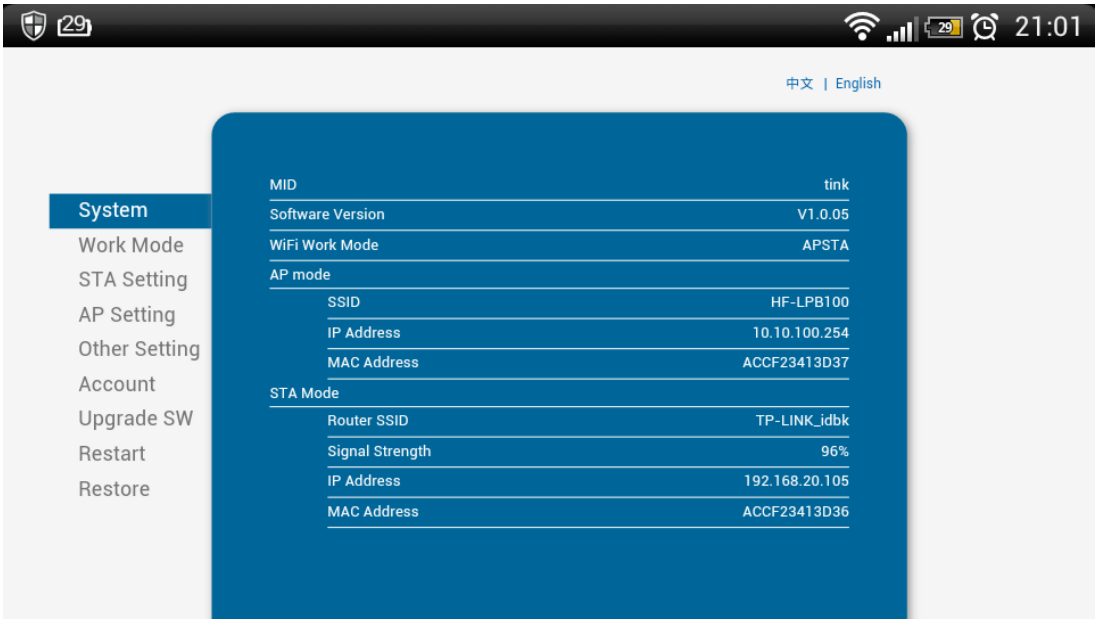
First, turn on cell phone WIFI function, search WIFI signal， HF-LPB100 and connect;



Second, after connect WIFI, open cell phone browser, and input: 10.10.100.254, enter to input user name and password. Default: admin. Login homepage and you can configured WIFI module parameter, same way as above.



Input WIFI module IP address, user name and password



Main interface

IV: Software Using

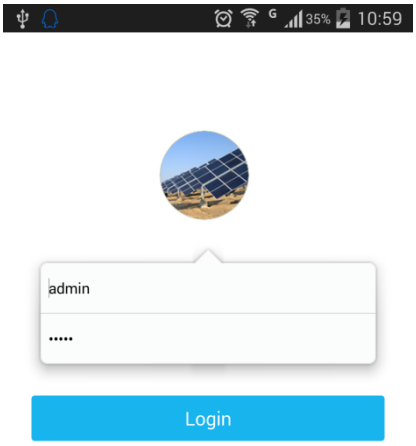
After finish above settings, inverter inside WIFI module will connect to WIFI router automatically. Now user can install solar monitoring software on PC or cell phone. Software can be downloaded at: www.idbksoft.com.

4.1 PC Software User Manual

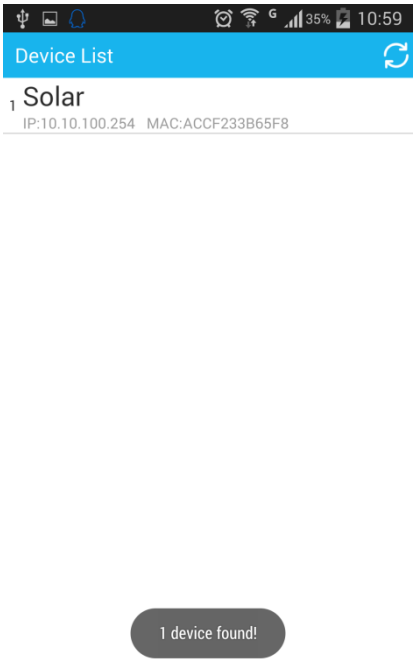
Please refer《iSmartsolar LPV manual》.

4.2 Cell Phone Software

After install monitoring software APP on cell phone, turn on WIFI function, connect to your router and open the APP. See the picture below, click “Login”. Click cycle arrows on the top right corner to search WIFI equipment and connect it. Several WIFI equipments can be searched.



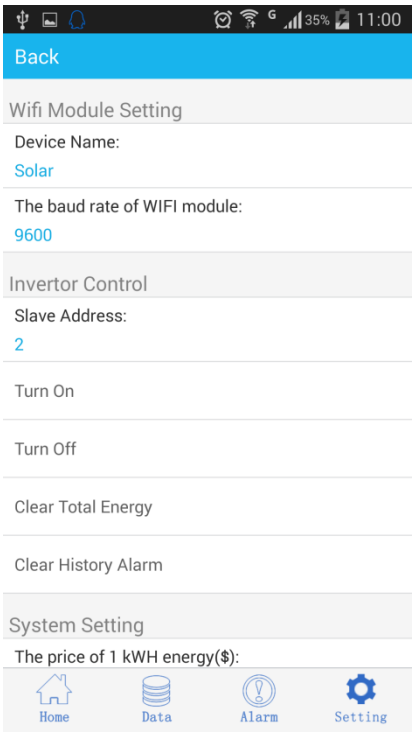
Login interface



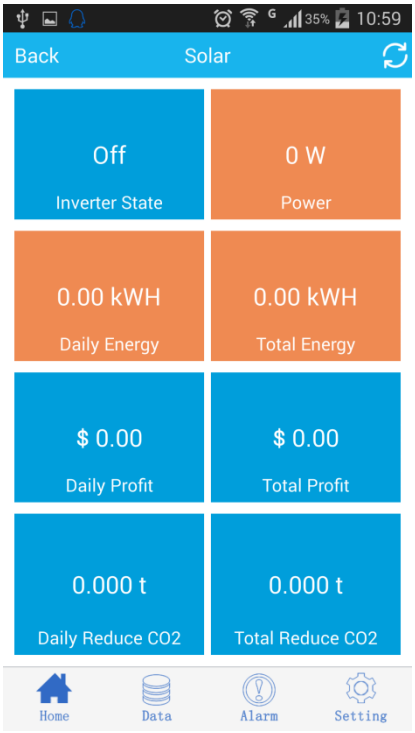
Search interface

Enter main interface. If the equipment is first connected, system will auto test wifi module baud rate.If system baud rate is not 9600,system will tip you to modify baud rate.You can click Setting label to modify baud rate.By default you need to change system baud rate to 9600.Be careful that the wifi moduler will restart.At that moment System will come back to login page. Perhaps you need wait 10 seconds,system will auto connect to your phone or router.

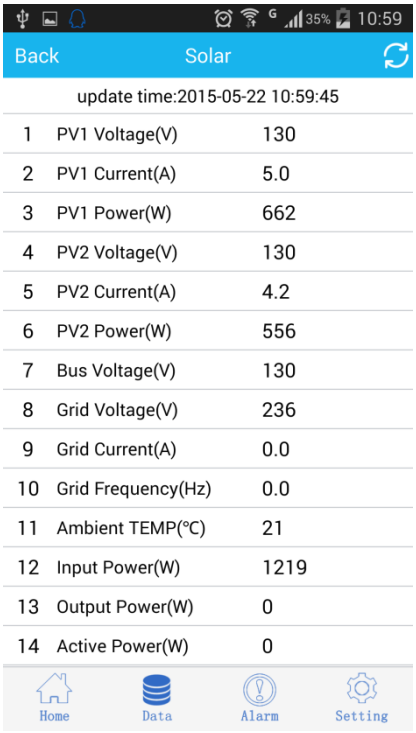
After modefying baud rate,system default device address,also modbus slave address is 1. If inverter actual address is not 1, you also are able to modify address in the Settings interface label.Inverter address can be abtained from inverter display,detail operate method referes to inverter operater handbook. Besides,suggest user input inverter name in device name column, In order to distinguish different inverters.After that, click “submit”. Then you can distinguish different inverter according to the name in device search interface.Below graph is the Setting label page.



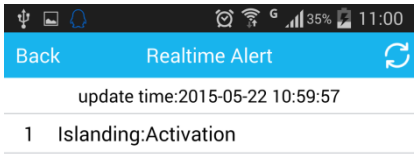
When baud rate and device address are all right,click “Home” or “Data” label, you can view the data from inverters;If the inverter alarms, click “Alarm” label, you can view inverter real and history alarm information.The information is stored in the inverters,at most 10 records.



Home page interface



Data interface



Alarm interface