

Ouijaboard 2.0 Replace Ouijaboard

Ouijaboard 2.0 pre-installed latest version 6.1.182 ([Package Address](#))

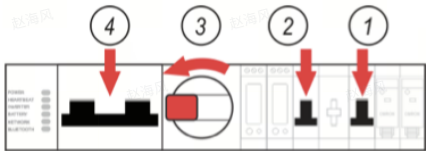
Support Model: SH5000 V2

Support Inverter Firmware: 252519

1. Shutdown the Inverter

5.1 Shutdown procedure

Occasionally, it may be necessary to shut down the inverter interrupting all inverter functions, noting that PV, battery and grid supplies remain energised to the isolators.

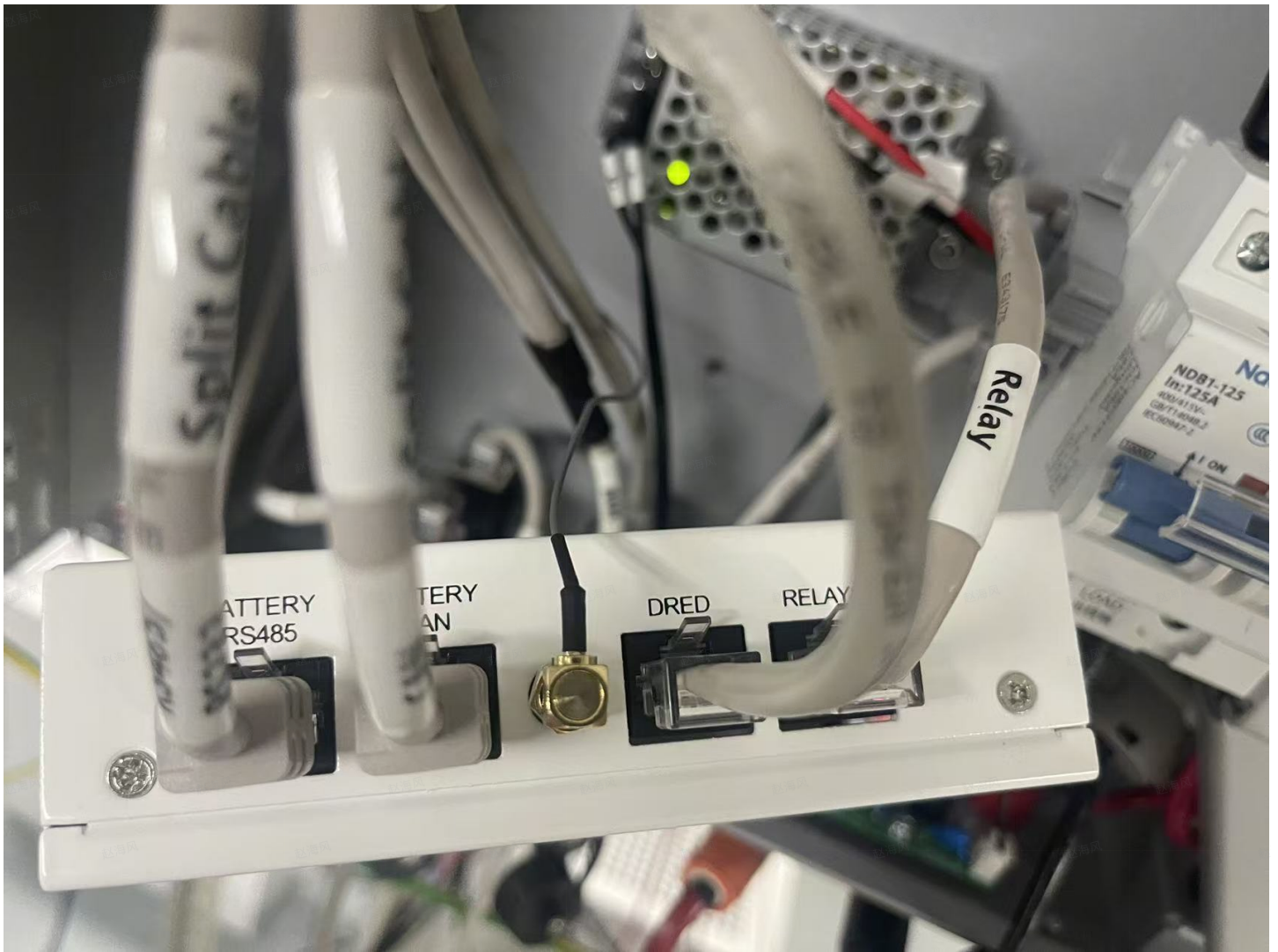
Step	Procedure	Comment/illustration
1.	Open the BoS switchgear hatch. Switch the INVERTER AC isolator OFF (down).	
2.	Switch the BACKUP AC isolator OFF (down).	
3.	Turn the PV ARRAY DC isolator OFF (anticlockwise to 9 o'clock).	
4.	Switch BATTERY SYSTEM DC isolator OFF (down).	
5.	Turn the Solar Supply Main Switch OFF (on the main switchboard or sub-board). The inverter is now OFF: all software and communications are stopped, and no energy is being imported or exported from the inverter.	
 WARNING: PV and battery supplies remain energised to the isolators.		

2. Replace Ouijaboard

1. After ensuring that all the lights on the Ouijaboard are turned off, unplug the POWER cable, USB flash drive connected to the antenna, and all network cable interfaces on the Ouijaboard, and turn off the antenna connection nut from the USB flash drive.
2. Loosen the 4 nuts on the Ouijaboard mounting bracket and remove the Ouijaboard (the nuts should be stored).
3. Remove the fixed bracket of Ouijaboard to Ouijaboard 2.0, and then use the previous four nuts to re-fix Ouijaboard 2.0 to the inverter.

4. After the fixation is completed, first turn the nut connecting the antenna onto the yellow bolt on Ouijaboard 2.0, and then connect RELAYS, DRED, BATTERY CAN, BATTERY RS485, ETHERNET, INVERTER2, RS485 (connected to CT METER) and POWER according to the communication line and the label on Ouijaboard 2.0. The 4G interface is not connected to any communication lines.





5. Turn up the bypass switch and AC isolation switch, and all the lights on the Ouijaboard 2.0 will light up for one second, then the Bluetooth lights will start flashing.

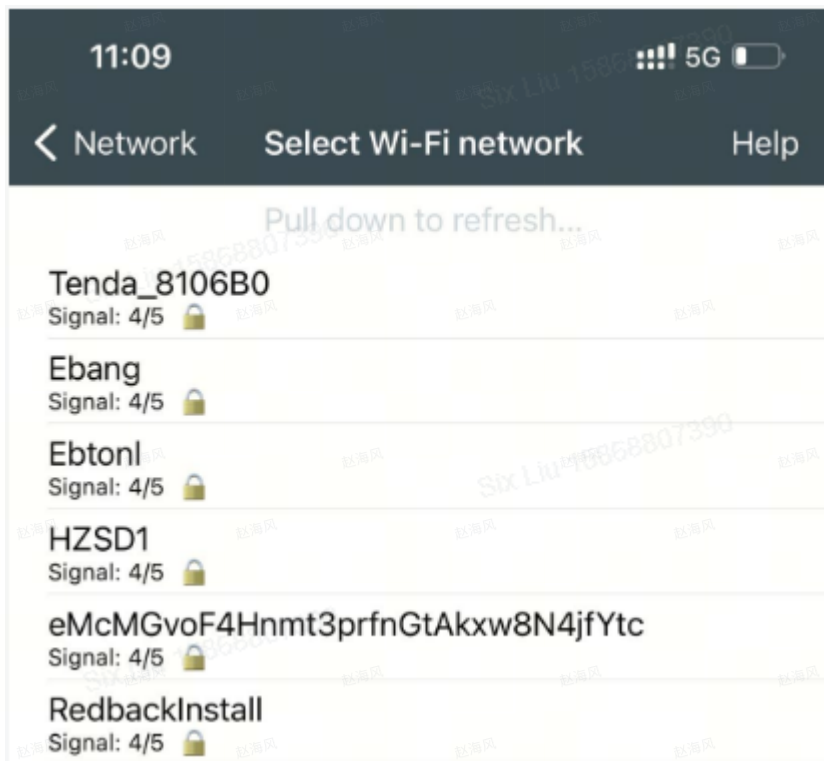
3. Config Network for Ouijaboard 2.0

Must install the latest version of the installer app (V2.25.134640 or above)

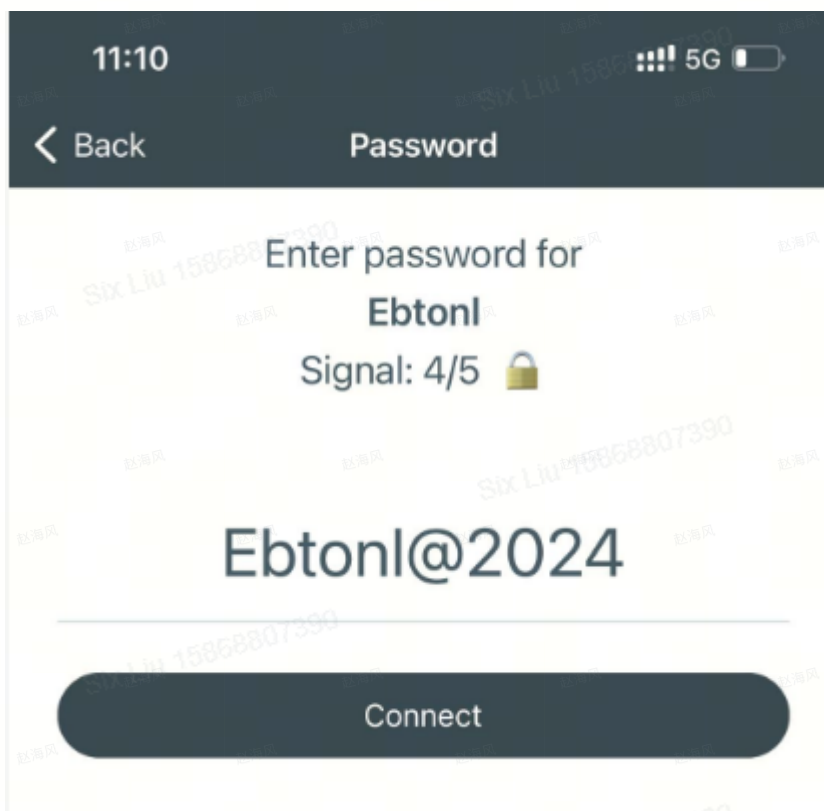
1. Check if the Bluetooth indicator light is flashing. If not, restart the inverter or Ouijaboard 2.0
2. Use the installer App to scan and connect to the inverter (Ouijaboard 2.0 has SN on the side)
3. Configure the network of Ouijaboard 2.0
 - Click on "NetWork"



- Select the corresponding network type



- Select the corresponding network and enter the password

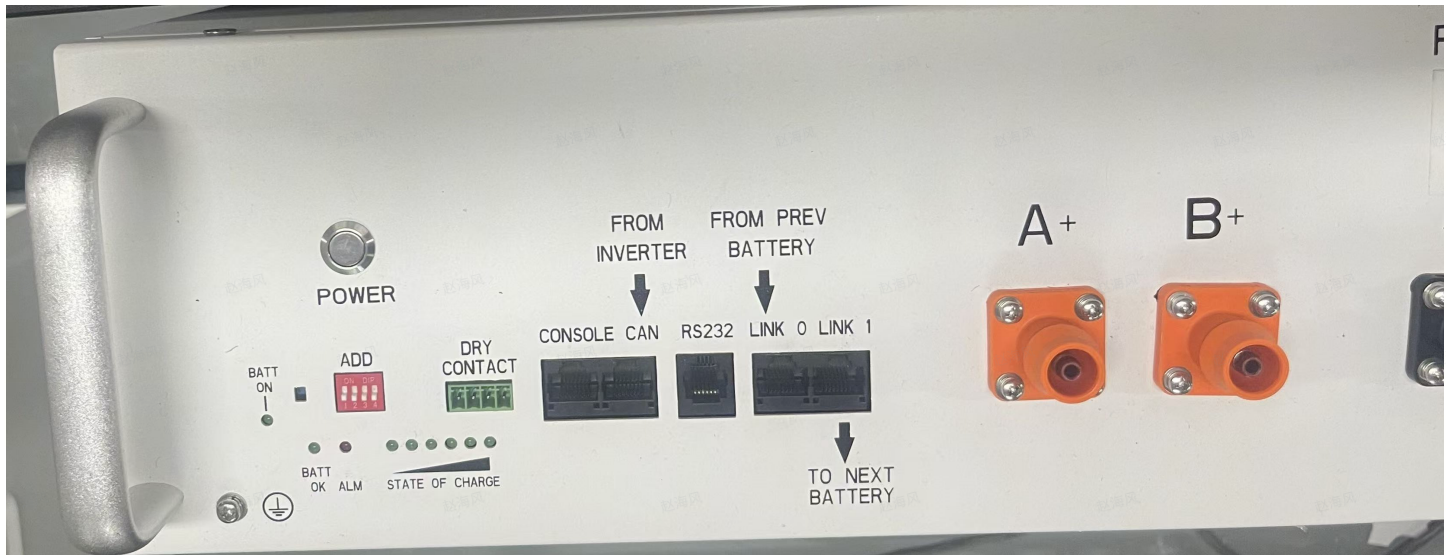


- After clicking "connect", the network configuration is completed.

4. Replace Batteries (Optional)

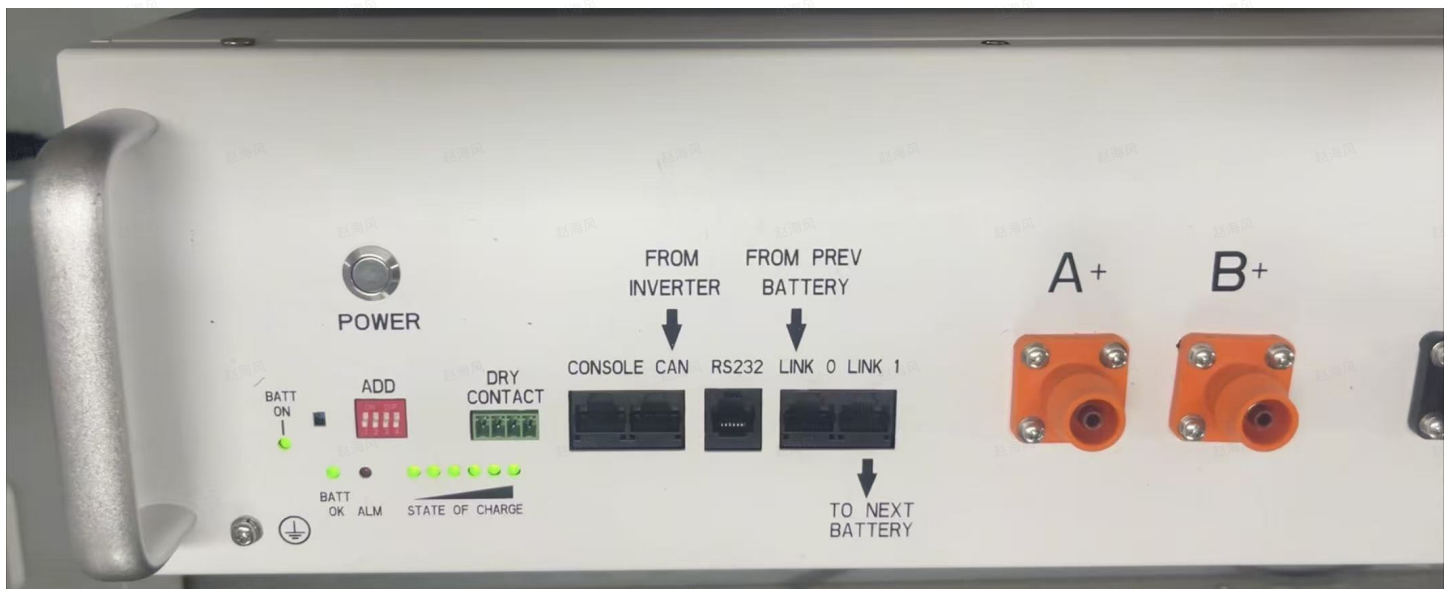
Support RED-R1-5000LV

1. Prepare RED-R1-5000LV battery and corresponding wiring
2. Install the battery into the battery cabinet
3. Connect the RED-R1-5000LV battery to the battery interface of the inverter using the corresponding wiring. Oujaboard 2.0 will automatically recognize the type and quantity of batteries.



Opening and closing of RED-R1-5000LV battery:

- 1、 Opening: Press and hold the POWER switch for 5 seconds, then release it. The STATE OF CHARGE lights will flash in sequence, and the BATT ON light will remain on.



- 2、 Closing: Press and hold the POWER switch for 5 seconds, then release it. The STATE OF CHARGE lights will flash in sequence, and then all lights will turn off.

5. Meter Test

- Run the Meter Test in the installer App

- In the shadow of the Tuya device, the MeterConnectCheckFlag is set to true.

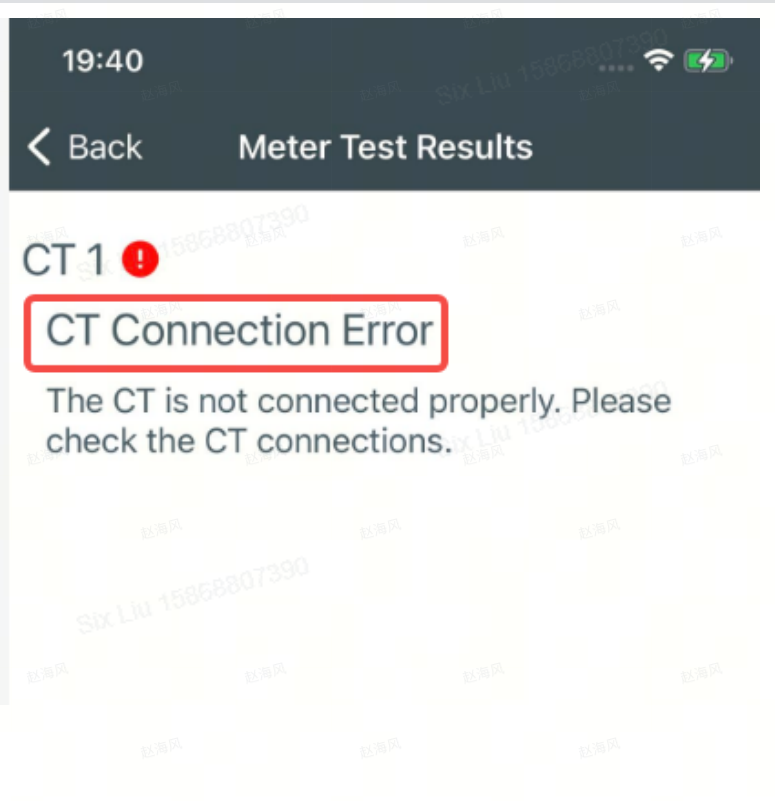
```
"ems": {  
  "MeterConnectCheckFlag": true,  
  "DredConfig": true  
}
```

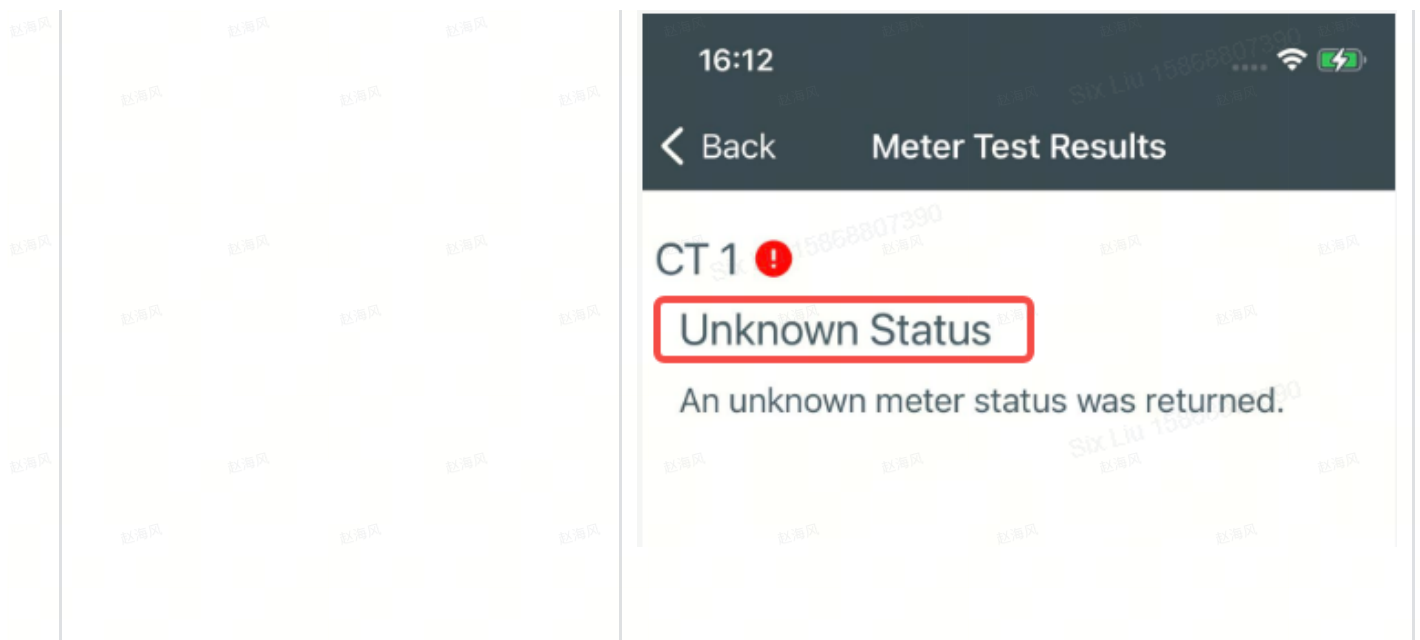
- After waiting for a few minutes, the test results will be displayed in the app.
- To verify whether the result is correct, you can check the value of MeterConnectStatus in the shadow of the Tuya device.

```
"MeterConnectCheckFlag": false,  
"MeterConnectStatus": 1
```

- The content of the MeterConnectStatus enumeration value is as follows

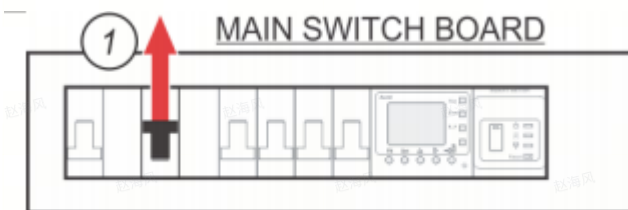
Status	Function screenshot
0: not detected	
1: right on	
2: reverse connection	

	 The screenshot shows a mobile app interface titled "Meter Test Results". At the top, the time is 19:16 and the battery is at 50%. Below the title bar, there is a section for "CT 1" with a red exclamation mark icon. A red box highlights the text "Reverse Connection". Below this, a message states: "The meter is connected in reverse. Please use the auto-fix button to correct this."
3: CT is not connected properly	 The screenshot shows a mobile app interface titled "Meter Test Results". At the top, the time is 19:40 and the battery is at 50%. Below the title bar, there is a section for "CT 1" with a red exclamation mark icon. A red box highlights the text "CT Connection Error". Below this, a message states: "The CT is not connected properly. Please check the CT connections."
4: If any other value is returned, an unknown status will be displayed	



6. Normal Startup of Inverter with Ouijaboard 2.0

1. At the main switchboard, turn the Solar Supply Main Switch ON (Up).



2. At the enclosure(s), turn the Battery Isolator(s) ON (to left).



3. To operate EMXBOX normally, turn on the bypass switch and AC isolation switch to turn it on.
4. Turn on the battery, PV, backup switches and wait for about 5 minutes.
5. When the inverter is running normally, turn off the bypass switch.

7. Check Work Status

- Dashboard

https://portal.redbacktech.com/ui/#/Dashboard/RB*****/

- Telemetry

https://portal.redbacktech.com/product/RB*****/data/telemetry/latest

Important

- **Installer APP must update to the latest version**
- Not supporting switching back from Oujaboard 2.0 to Oujaboard
- Remote CT flipping is not supported
- OTA upgrade only supports distribution from the Tuya platform