



PV Master App



SEMS Portal App



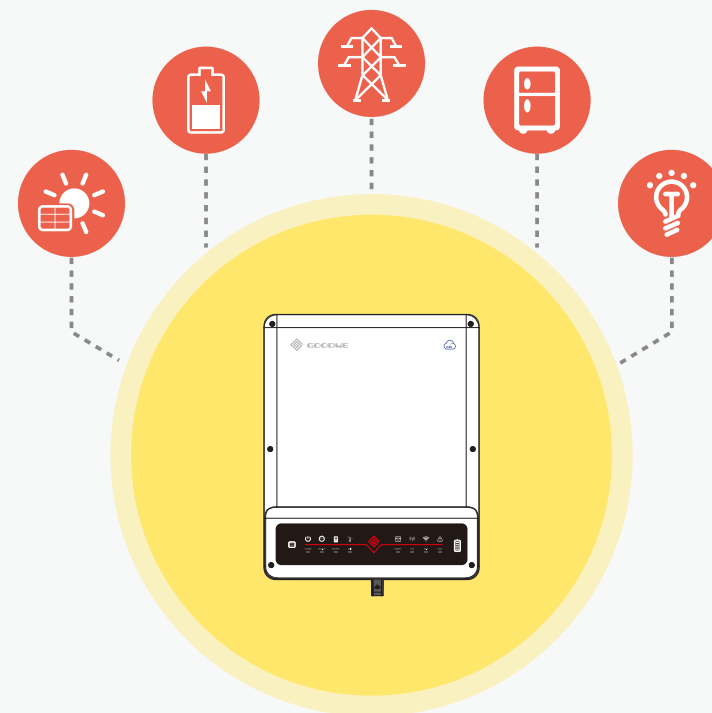
SEMS Portal website:
www.semsportal.com



LinkedIn



Official Website



ET QUICK INSTALLATION INSTRUCTIONS

PART 1

QUICK
INSTALLATION

PART 2

BATTERY
CONNECTION

PART 3

Wi-Fi
CONFIGURATION

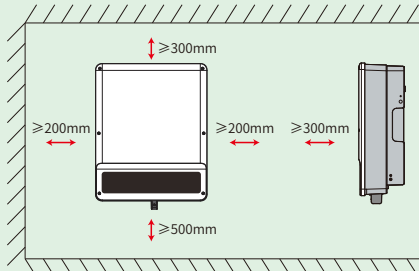


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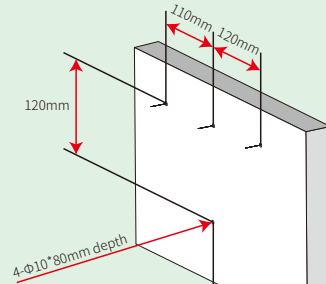
Step 1. Instructions for quick installation

A Installation space

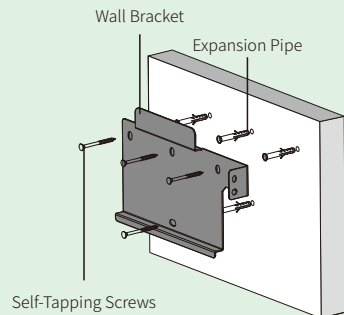
Upward 300mm
Downward 500mm
Front 300mm
Left and right side 200mm



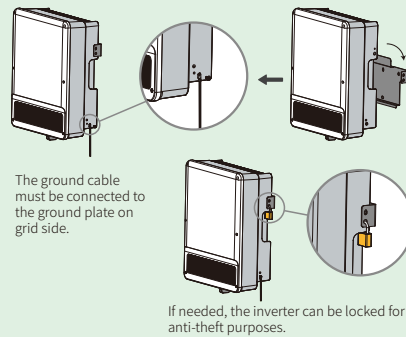
B Dimensions for drilling holes



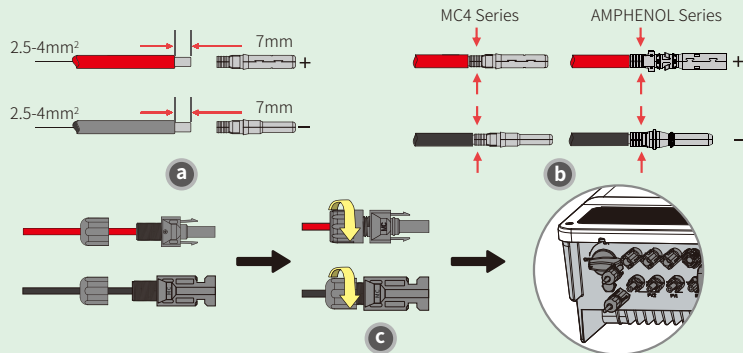
C Attach the wall bracket



D Installation

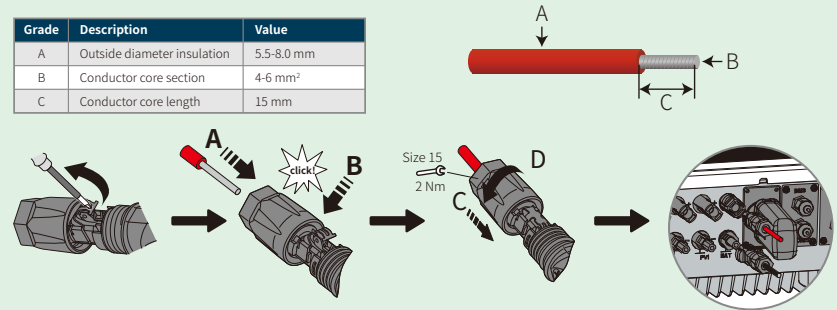


F PV wire assembly and connection

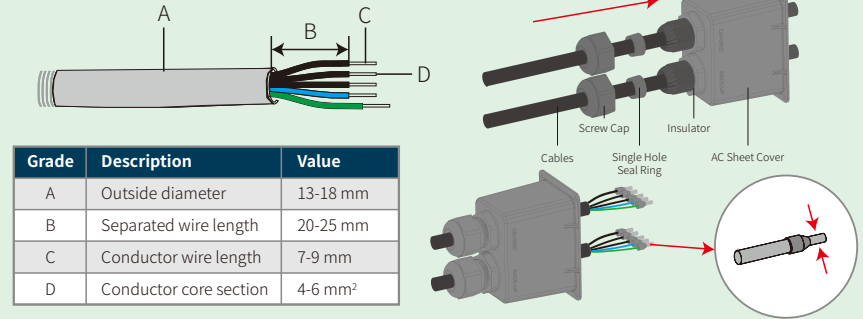


E Battery wire assembly and connection

Grade	Description	Value
A	Outside diameter insulation	5.5-8.0 mm
B	Conductor core section	4-6 mm²
C	Conductor core length	15 mm

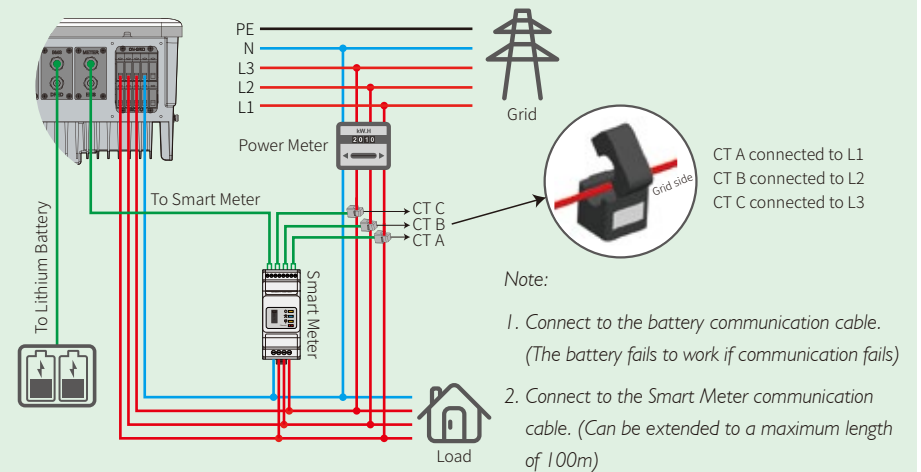


G AC cable assembly and connection



Note: Make sure the cables (L/N/PE) are connected to the right locations.

H Communications cable connections



Step 1
Instructions for quick installation

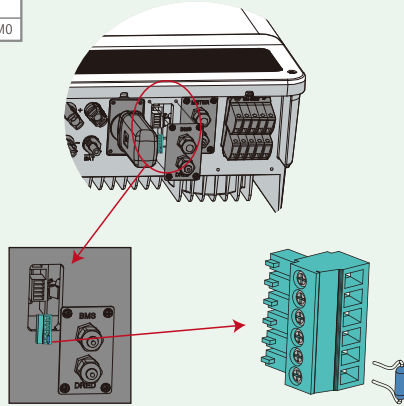
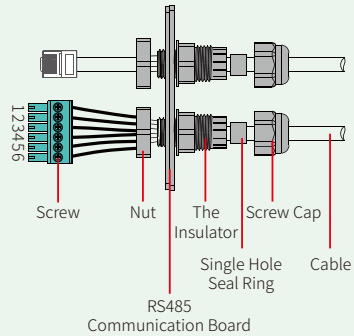
Step 2
SOP of battery connection

Step 3
Wi-Fi configuration instructions

I DRED cable assembly

! DRED connection is only available for Australia and New Zealand.

NO	1	2	3	4	5	6
Function	DRM1/5	DRM2/6	DRM3/7	DRM4/8	REFGEN	COM/DRM0



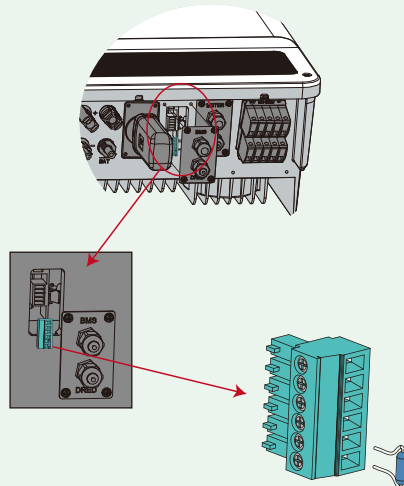
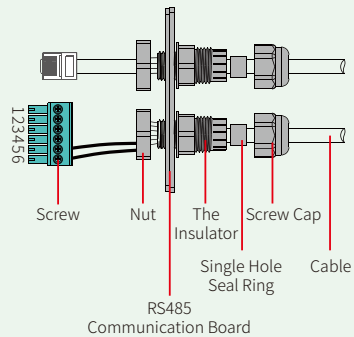
1. Pull out the 6-pin terminal and dismantle the resistor on it.
2. Unplug the resistor and leave the 6-pin terminal for the next step.

Note: The 6-pin terminal in the inverter serves the same function as a DRED device. Please leave it in the inverter if no external device is connected.

J Remote shutdown cable assembly

! Remote shutdown connection is only available for Europe.

NO	5	6
Function	REFGEN	COM/DRM0



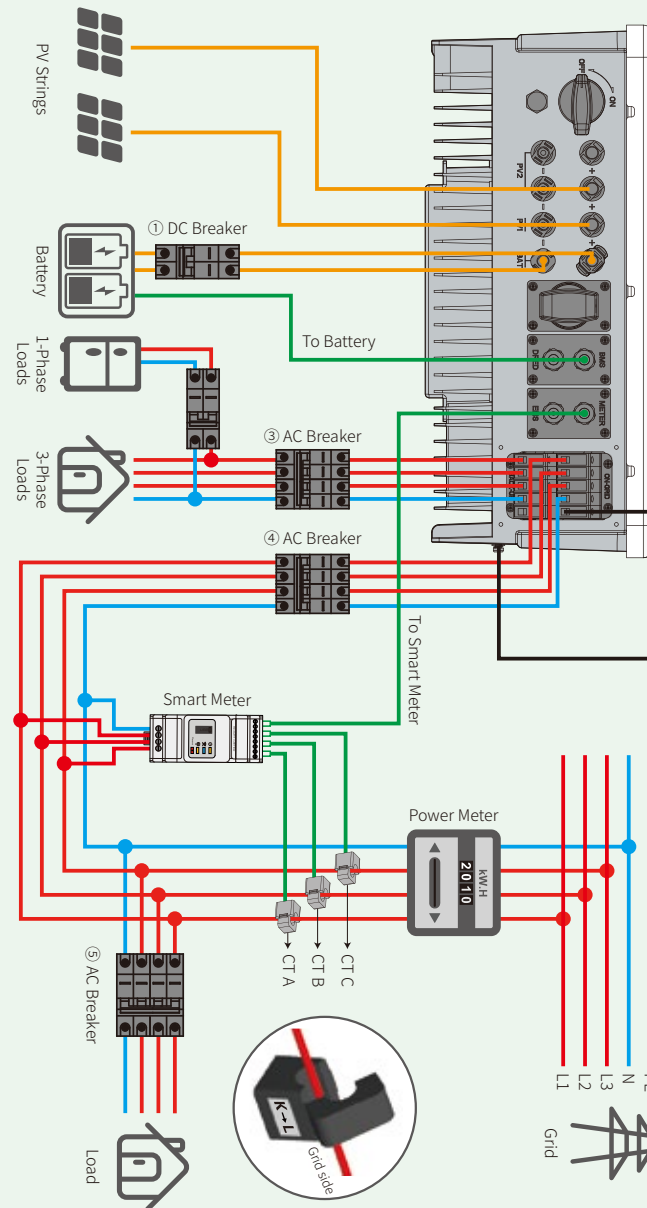
Step 1
Instructions for quick installation

Step 2
SOP of battery connection

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K Wiring system for ET series hybrid inverter

Note: This diagram shows the wiring structure of the ET-series AC-coupled inverter and not the electric wiring standard.



Please select the Breaker according to the specifications below

Inverter	①	②	③	④	⑤
GW5KL/6KL-ET		25A/400V AC breaker			
GW8KL/10KL-ET		32A/400V AC breaker			
GW5K/6K5-ET	40A/600V DC breaker	25A/400V AC breaker			Dependent on household loads
GW8K/10K-ET		32A/400V AC breaker			

1. For batteries with attached breakers, the external DC breaker can be omitted.
2. Please use CT A for L1, CT B for L2 and CT C for L3. And follow the "House(K) → Grid(L)" direction to make the connection. Otherwise, there will be an error reminder from the PV Master App.

Step 2. SOP of battery connection to the hybrid inverter

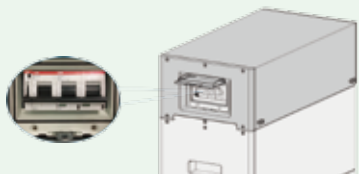
Note: This manual only tells connection methods between battery and GoodWe inverters. For other operations on battery, please refer to the battery user manual. This manual only includes some battery models, not all of them. Battery models are subject to change without prior notice.

This is an instruction for quick installation of GOODWE hybrid inverters (ARM version 11or higher) and BYD-Box Premium HVM or HVS battery. For details of the connection or commissioning, please go to user manual of the inverter and the battery if you cannot find it in this instruction. Here we take GOODWE hybrid inverter and BYD Premium HVM battery as an example for connection and commissioning.

Precautions

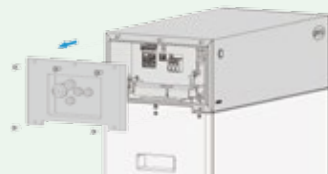
A

Make sure battery and inverter are not damaged and battery breaker is turned off before making any further move



B

Loss the screws on battery control unit and move the cover plate to see all the connectors for battery

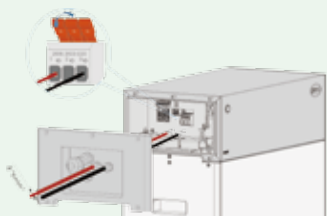


Step 1: Power Cable Wiring

A

Put battery power cable through battery cover plate and press cable into the right port. Power cable dimension: 4~6mm²

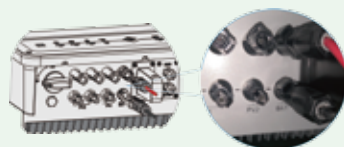
Note: Please follow inverter's requirement to select power cable if there is conflict on hybrid inverter and Battery manual



B

Connect other side of the power cable to inverter.

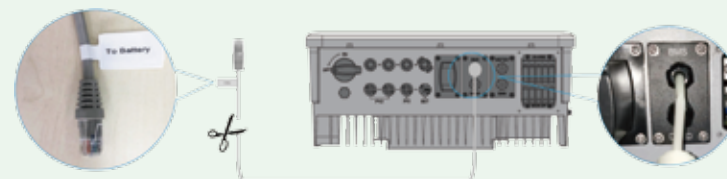
Note: Please use the battery connectors in the components box of hybrid inverter



Step 2: Communication Cable Wiring

On battery manual, there are various connection ways for communication or a general wiring system. Please follow this instruction for HVM or HVS communication with GOODWE inverters.

A. Cut off the preset BMS communication cable ("To Battery" cable) attached on inverter

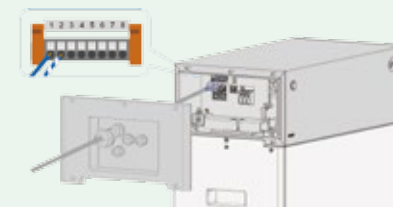


B. Split up pin cables inside the cable

Note: Please user professional tools to do build up communication cable

C. Connect CAN_H (Blue) and CAN_L (Blue & White) to port 1 and port 2

Note: If you make a new CAT-5 cable to take place of or extend the preset BMS communication cable, please refer to Pin functions below



Pin Function of BMS Communication Connector on Inverter Side



Position	Color	BMS Function
1	Orange&white	485_A2
2	Orange	NC
3	Green&white	485_B2
4	Blue	CAN_H
5	Blue&white	CAN_L
6	Green	NC
7	Brown&white	NC
8	Brown	NC

D. After power and communication cable installation, put the cover plate back properly. Then battery is ready to be started up before battery commissioning

Step 3: Commissioning

NOTE: Commissioning is both required on battery and inverter.

Battery Commissioning

Use “Be Connect App” to do commissioning of battery (for details, please follow BYD Battery-Box Preium Firmware update & Configuration Guideline)



A

Select “GOODWE HV” for inverter option



B

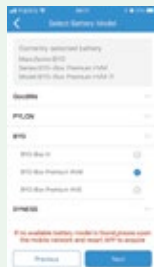
Select HVM for battery option and set the realmodule No.

Note: for battery paralleling, the module no. is that of Master unit



Inverter Commissioning

For detailed commissioning of the system on inverter, please follow GOODWE PVMaster User Manual

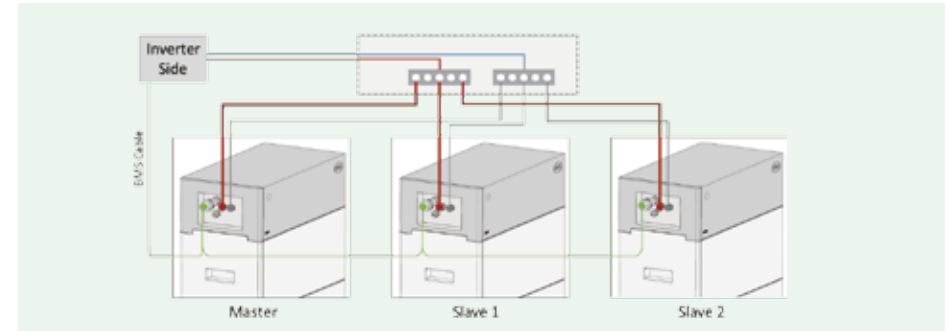


*Note:
wrong commissioning will cause BMS communication failure.*

Battery Paralleling:

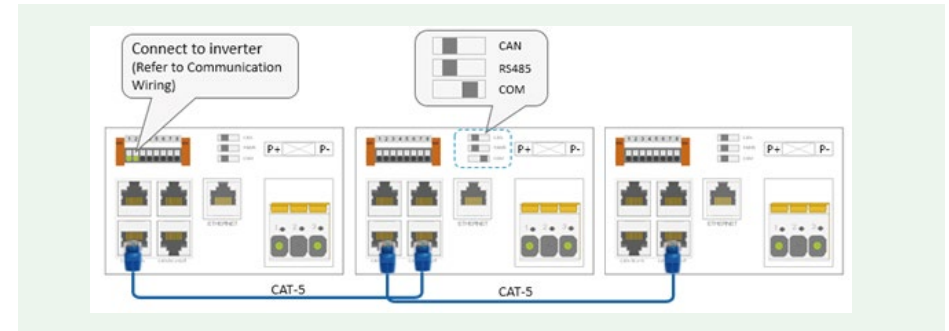
For details, please follow BYD instructions.

System Wiring Diagram

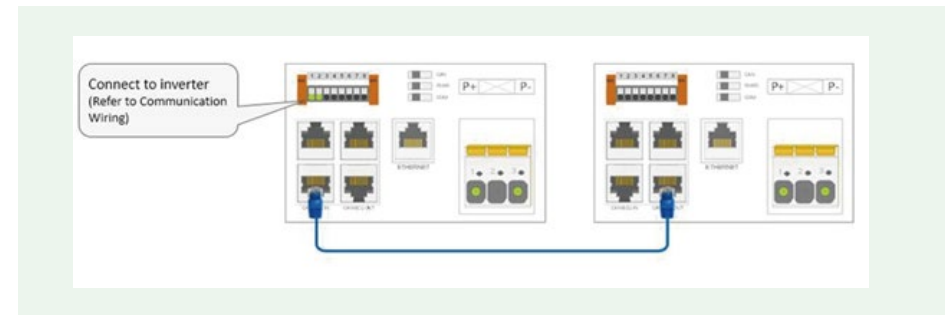


Internal Communication Wiring (for BCU paralleling)

Paralleling of 3 BCU



Paralleling of 2 BCU



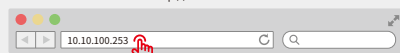
Step 3. Wi-Fi configuration instruction

A Preparation

1. Power on inverter or EzLogger Pro (Wi-Fi version)
2. Power on Wireless Router
3. Connect smart device to Wi-Fi of inverter.

B Connect to "Solar-WiFi"

1. Connect smart device to Wi-Fi "Solar-WiFi" or "Solar-WiFi*" with password 12345678(*refers to the last eight digits of inverter's SN)
2. Visit the website <http://10.10.100.253>



Tip: Please refresh the page if there appears "Unauthorized Login".

B-3: Enter User name: admin, Password:admin, click OK

Admin(U):

Password:

☒ Remember the password (R)

C Preparation

Click "Start Setup"

Please select your current wireless network

Firmware version 1.6.9.3.38-2.1.38
MAC address 60:C5:A8:60:33:E1

Wireless AP mode **Enable**

SSID Solar-Wi-Fi
IP address 10.10.100.253
Wireless STA mode Disable
Router SSID WiFi_Burn-in
Encryption algorithm WPA/WPA2-PSK
Router Password AES
Router Password WiFi_Burn-in

A "cannot join the network error" may be caused by:
The router does not exist, the signal is too weak, or the password is incorrect.

*** Help:** The Wizard will help you to complete the setup within one minute.

Tip:
Specification of Wi-Fi module is available on Device Information at previous page.

Select available Wi-Fi and click "Next"

Please select your current wireless network

SSID	AUTH/ENCRY	RSSI	Channel
☐ Wi-Fi_Burn-in	WPA2/WPA3/TKIP/AES	66	1
☐ Wi-Fi_Burn-in	WPA2/WPA3/TKIP/AES	100	1
☐ Wi-Fi_Burn-in	WPA2/WPA3/TKIP/AES	70	1
☐ Wi-Fi_Burn-in2	WPA2/WPA3/TKIP/AES	72	1
☐ Wi-Fi_Burn-in2	WPA2/WPA3/TKIP/AES	100	1
☐ Wi-Fi_Burn-in2	WPA2/WPA3/TKIP/AES	70	1
☐ Wi-Fi_Burn-in3	WPA2/WPA3/TKIP/AES	76	1
☐ Wi-Fi_Burn-in3	WPA2/WPA3/TKIP/AES	76	1

*** Help:** When the RSSI of the selected Wi-Fi network is below 35%, the connection may be unstable. Please select another available network or shorten the distance between the device and the router. If your wireless router does not broadcast its SSID, please click "Next" and add a wireless network manually.

D Connect to "Solar-Wi-Fi"

Enter the router password and click "Next".

Manually add a wireless network:

Network name (SSID)

Encryption method

Encryption algorithm

Please enter the wireless network password:

Password (8-63 characters)

☒ Remember the password (R)

***Note:** SSID and password are case sensitive
Please make sure that all parameters of the wireless network match the router parameters, including the password.

Tip:
Please make sure there is no unacceptable character in the password otherwise, it may cause unsuccessful Wi-Fi configuration.

Click "Complete" to confirm

Save success!

Click "Complete". The current configuration will take effect after restart.

If you still need to configure the other pages of information, please proceed to complete your required configuration.

The configuration is complete. You can login to the Management page to restart the device by clicking on the "OK" button.

Confirm or complete?

E Troubleshooting

No.	Problem	Troubleshooting
1	Unable to find Solar-WiFi or Solar-Wi-Fi*	1. Check if inverter is power on and Wi-Fi module is well attached. 2. Make sure your smart device is close to the inverter. 3. Restart inverter. 4. Press "Wi-Fi Reloadt" button to have Wi-Fi module back to default mode and follow above Wi-Fi configuration steps again.
2	Unable to connect to Solar-WiFi or Solar-Wi-Fi*	1. Try password: 12345678; 2. Check there is any device connected to the Solar-Wi-Fi* already. 3. Press "WiFi Reload" button to have Wi-Fi module back to default mode and follow above Wi-Fi configuration steps again. 4. Restart inverter and try Wi-Fi configuration again. 5. Check if there is any unacceptable character in the password.
3	Unable to login website 10.10.100.253	1. Press "WiFi Reload" button to have Wi-Fi module back to default mode and follow above Wi-Fi configuration steps again. 2. Switch to preferred browsers such as Google Chrome FireFox, IE, Safari.
4	Unable to find router SSID	1. Move the router closer to inverter or use a Wi-Fi repeater device; 2. Check if the channel number of router is higher than 13. If yes, modify it into a lower number at router configuration page.
5	Wi-Fi LED indicator blinks twice continuously with all configuration steps done	1. Restart the inverter. 2. Check if the SSID, encryption method, encryption algorithm and password on Wi-Fi configuration page is the same with that of Wireless Router and correct if different. 3. Check if the maximum amount of devices allowed to connect to the router has exceeded. If yes, please disconnect some devices or expand the limitation. 4. Restart Wireless Router. 5. Mover Wireless Router closer to the inverter or use a wireless repeater to enhance Wi-Fi signal.
6	Wi-Fi LED indicator blinks four times continuously when all configuration steps done	1. Connect smart device to non-inverter Wi-Fi and access to SEMS Portal to check if the inverter is online. 2. Restart Wireless Router and the inverter.
7	Offline status of inverter on SEMS Portal with Wi-Fi LED indicator always	1. Please wait a few minutes for data transmission and check on SEMS Portal later