PV Master App

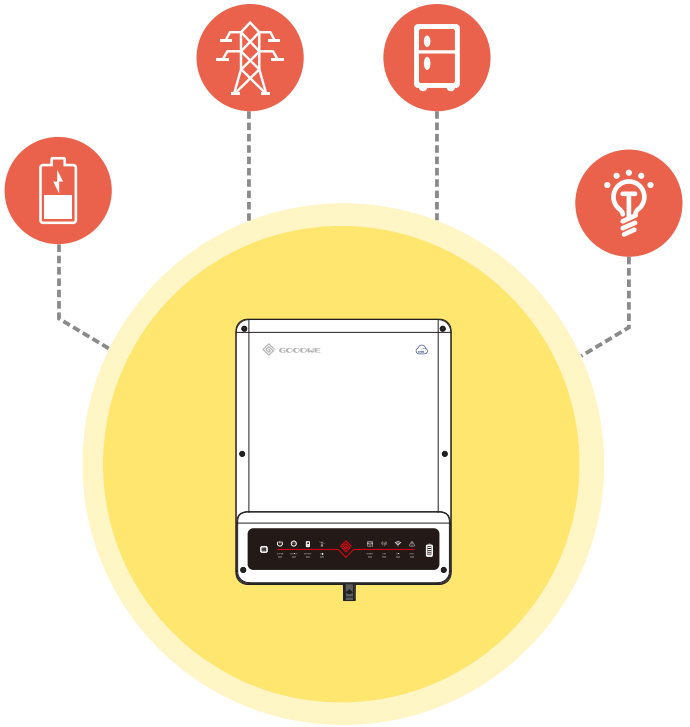
SEMS Portal App

SEMS Portal website
www.semsportal.com

LinkedIn

Company's
offical website

GOODWE
YOUR SOLAR ENGINE



BT QUICK INSTALLATION INSTRUCTIONS

PART 1
QUICK INSTALLATION

PART 2
BATTERY CONNECTION

PART 3
Wi-Fi CONFIGURATION

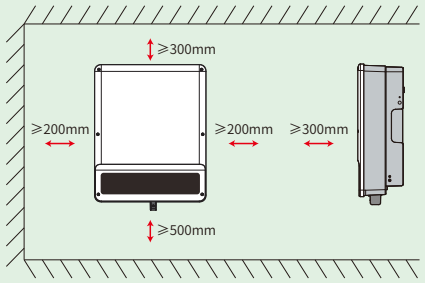
340-00329-01

Rev.1.1
2021-01-08

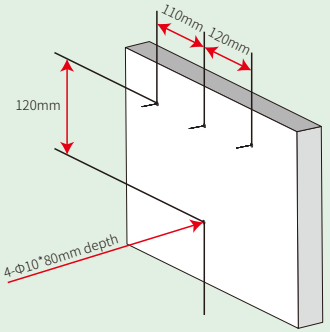
Step 1. Instrucitons for quick installation

A Installation space

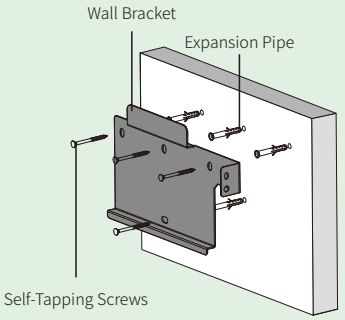
Upward ---------- 300mm
Downward ---------- 500mm
Front ---------- 300mm
Left and right side -------- 200mm



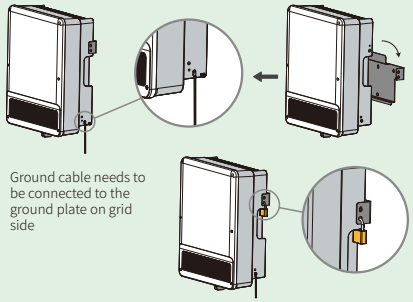
B Dimensions for drilling holes



C Fix the wall bracket

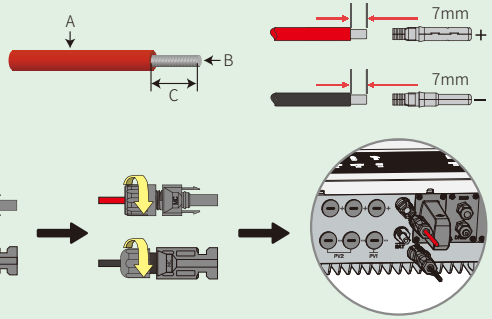


D Installation

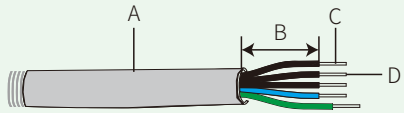


E Battery wire assembly and connection

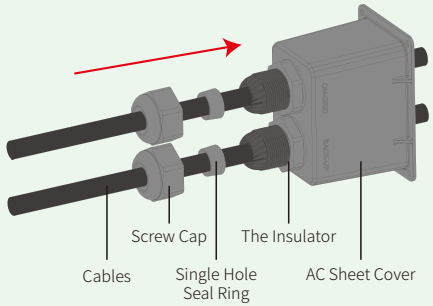
Grade	Description	Value
A	Outside diameter insulation	5.5-8.0 mm
B	Conductor core section	4-6 mm²
C	Conductor core length	15 mm

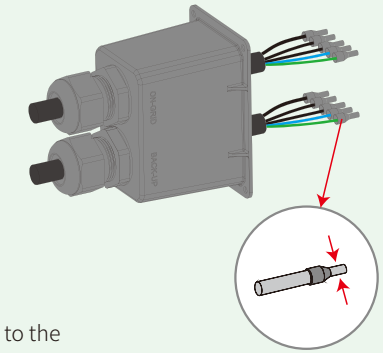


F AC cable assembly and connection



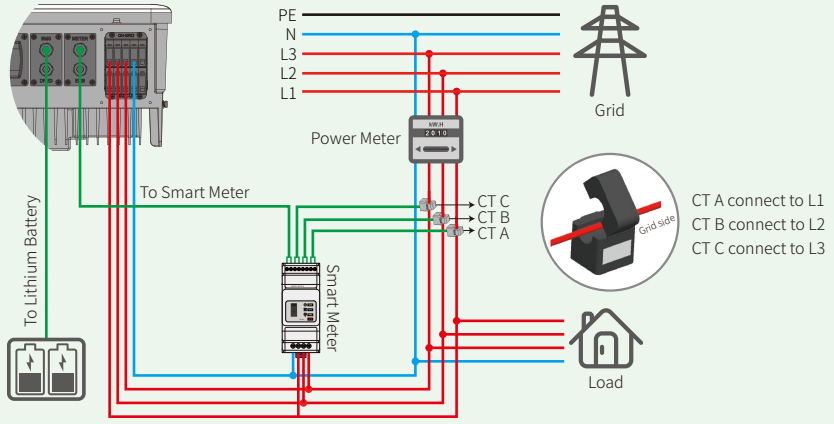
Grade	Description	Value
A	Outside diameter	13-18 mm
B	Separated wire length	20-25 mm
C	Conductor wire length	7-9 mm
D	Conductor core section	4-6 mm²





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

G Communication cable connection

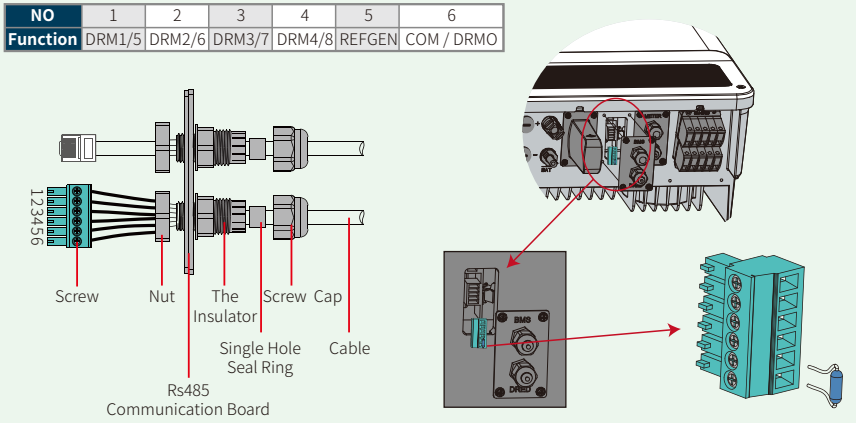


Note:
1. Connect to battery communication cable. (Battery fails to work if communication fails)
2. Connect to Smart Meter communication cable. (Could be extended to a max of 100m)

H 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 / DRMO



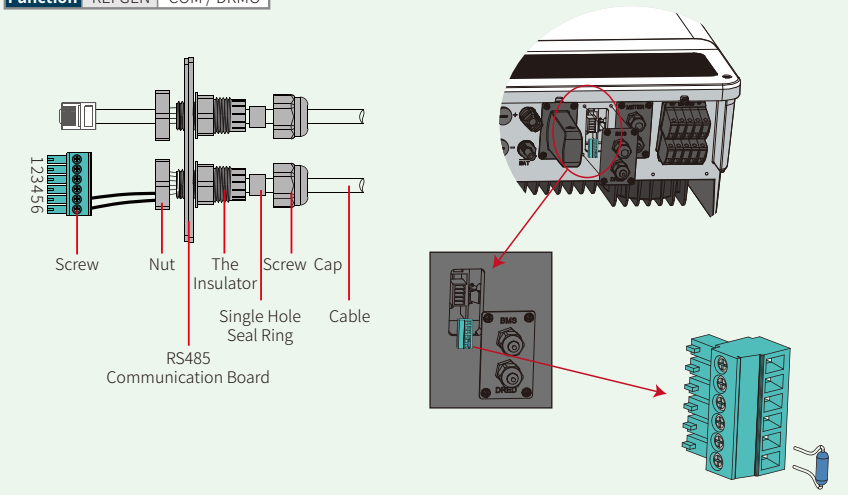
1. Plug out the 6-pin terminal and dismantle the resistor on it.
2. Plug the resistor out, leave the 6-pin terminal for next step.

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

I Remote shutdown cable assembly

⚠ Remote shutdown connection is only available for Europe.

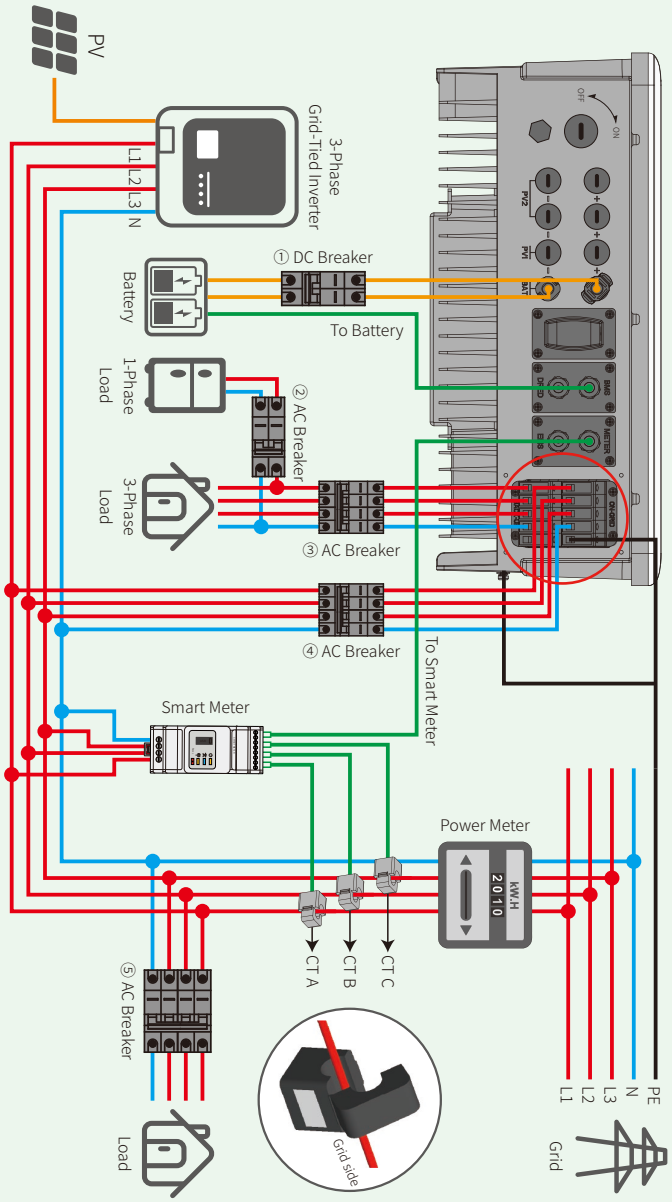
NO	5	6
Function	REFGEN	COM / DRMO



Step1
Instructions for quick installation
Step2
SOP of battery connection
Step3
Wi-Fi configuration instruction

J Wiring system for BT series hybrid inverter

Note: This diagram indicated wiring structure of BT series AC coupled inverter, not the electric wiring standard.



Inverter	①	②	③	④	⑤
GW5K-BT	40A/600V DC breaker	25A/400V AC breaker	25A/400V AC breaker	32A/400V AC breaker	Depends on household loads
GW6K-BT					
GW8K-BT					
GW10K-BT		32A/400V AC breaker			

Please select Breaker according to the specification below

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

Step 2. SOP of battery connection with ET inverter

Note: This manual only tells connection methods between battery and inverters. For other operations on battery, please refer to the battery user manual. (This quick installation instruction only includes parts of batteries, if there is a subsequent increase in battery, there will be no further notice.)

1. BYD

For BYD B-BOX series with hybrid inverter.

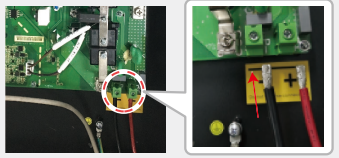
Note: In the gridless area, battery does not support off-grid applications. (There will be no further notice if this entry is subject to change)

A

⚠ Make sure that the inverter and the battery pack are turned off before connecting the battery pack to the inverter.

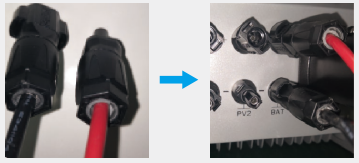
B

To connect the cables from the inverter to the BYD battery pack, take the following steps:
Connect the power cables to the terminal block of BYD battery pack.
Connect the negative cable to the position "P-" and the positive cable to the position "P+".



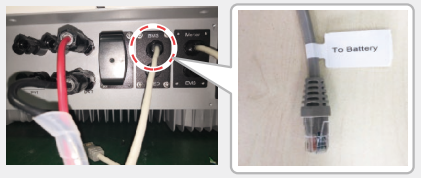
C

Connect the other end of the power cable to the terminal block of the hybrid inverter.



D

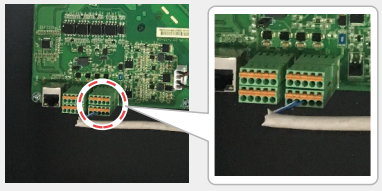
The communication cable for the battery is attached on the inverter.
Please use this cable as battery communication cable.



E

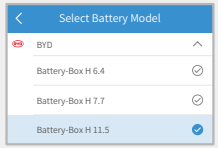
The other side of "To Battery" cable should be connected to CAN(Control (Controller) Area Network) port of BYD BMU (Battery management unit) box. Before this, you should pick out the blue-white line and the blue line.

Then, connect the blue-white line to the second port, and connect the blue line to the third port.



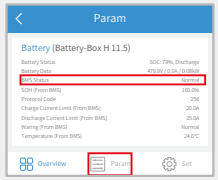
F

On PV Master, user should choose the right battery type used in your system in the "Battery Model" selection, otherwise battery communication will fail.



G

After all connection and setting have been done, please check if battery communication is OK on PV Master → Param → BMS Status, which should indicate "**Normal**".



2. Pylon

For POWERCUBE-H1 series with hybrid inverter.

A

⚠ Make sure that the inverter and the battery pack are turned off before connecting the battery pack to the inverter.

Note: The ADD must be set as shown.

B

To connect the battery packs in series, follow the instructions below.

1. Connections between BMU and Pylon battery packs:
   To conntect the power cable, connect "B+" of BMU to "B+" of the first battery pack, and connect "B-" of BMU to "B-" of the last battery pack. To connect the communication cable, connect "Link Port" of BMU to "Link Port 0" of the first battery pack.
2. Connections between adjacent Pylon battery packs:
   To conntect the power cable, connect "B+" with "B-" between adjacent battery packs. The orange end corresponds to "B+", the balck end corresponds to "B-". To connect the communication cable, connect "Link Port 1" to the next battery pack's "Link Port 0" in turn.

C

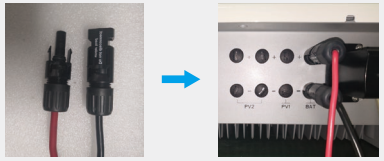
To connect the cables from the inverter to the Pylon battery pack, take the following steps.

Connect the power cables to the terminal block of Pylon Battery management unit (BMU).

Connect the negative black cable to the position "D-" and the positive orange cable to the position "D+".

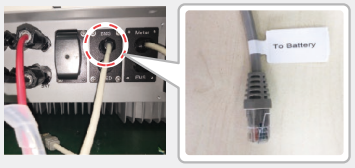
D

Connect the other end of the power cable to the terminal block of the hybrid inverter.



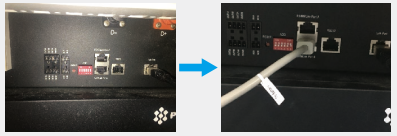
E

The communication cable for battery is attached on the inverter.
Please use this cable as battery communication cable.



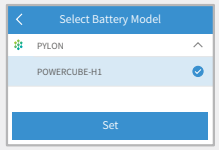
F

The other end of "To Battery" cable should be connected to CAN port of Pylon battery management unit (BMU).



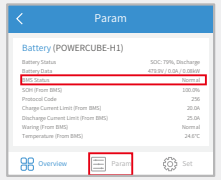
G

On PV Master, you should choose the right battery type used in your system in the "Battery Model" selection, otherwise battery communication will fail.



H

After all connection and setting have been done, please check if battery communication is OK on PV Master → Param → BMS Status, which should indicate "**Normal**".



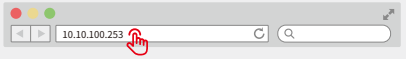
Step 3. Wi-Fi configuration instruction

Note: Wi-Fi configuration could also be done on PV Master App. For details, please download "PV Master Operation Introduction" from www.goodwe.com

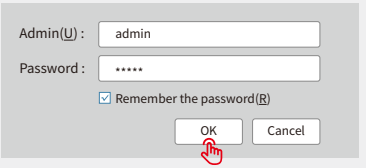
A Preparation

1. Power Wi-Fi inverter (or Power on inverter) on.
2. Power router on.

B Connect to "Solar-WiFi"

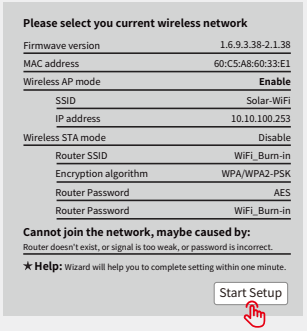


B-3: Enter User name: admin, Password:admin, clik OK

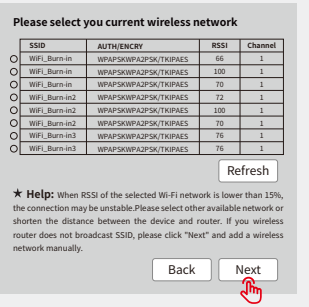


C Preparation

Click "Start Setup"



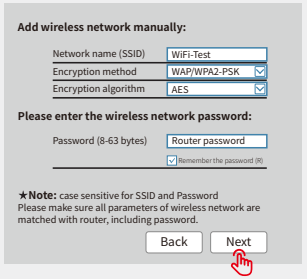
The Wi-Fi module refers to "Device information" column left.



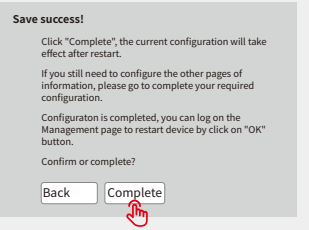
If the router is not in the site list, please refer to No.4 in "Troubleshooting".

D Connect to "Solar-WiFi"

Fill in router password and click "Next".



Please make sure all parameters of wireless network are matched with the router's, including password.



Note:
The "Solar-WiFi" signal will disappear after inverter is connected to WiFi router. Turn off the router or do Wi-Fi reload operation via button on inverter if you

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E Troubleshooting

No.	Problem	Checking items
1	Cannot Find Solar-WiFi Signal	1. Make sure inverter is powered on; 2. Move your smart device closer to inverter; 3. Restart inverter; 4. Do "WiFi Reload" operation by referring to user manual.
2	Cannot connect to Solar-WiFi Signal	1. Try password: 12345678; 2. Restart inverter; 3. Make sure there is no other device connected to Solar-WiFi; 4. Do "WiFi Reload" operation and try again.
3	Cannot login website 10.10.100.253	1. Make sure user name and password are both admin; 2. Do "WiFi Reload" operation and try again; 3. Try another browser (suggest use Google, FireFox, IE, Safari etc.); 4. Make sure website is 10.10.100.253
4	Cannot find router SSID	1. Move router closer to inverter or use a Wi-Fi repeater device; 2. Connect to router and login the setting page to check the channel. Please make sure the channel is not higher than 13. Otherwise, modify it.
5	Cannot connect to router	1. Restart inverter. 2. Connect to Solar-WiFi and login again, check the "SSID", "Security Mode", "Encryption Type" and "Pass Phrase" is matching with that of router or not; 3. Connect to router and login to check if the connection reaches the maximum amount or not, and to check the channel of it uses. Please make sure the channel is not higher than 13. Otherwise, modify it; 4. Restart router; 5. Move router closer to inverter or use a Wi-Fi repeater device.
6	After configuration, WiFi LED on inverter blink four times repeatedly	1. Connect to the router and visit the portal www.semsportal.com. Check if the portal is available or not; 2. Restart router and inverter.