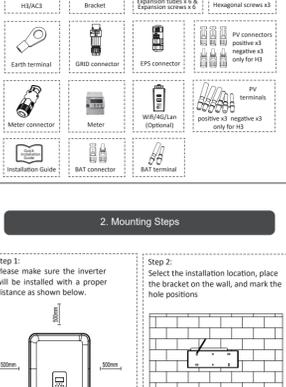


Quick Installation Guide

5-12kW Three-Phase Storage Inverter

1. Packing List



Step 3:

Drill the 6 holes with a $\phi 8$ drill bit. Depth: at least 50mm. Hammer the expansion tubes.



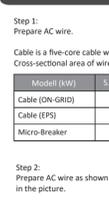
Step 4:

Installing the Bracket. Screw the expansion bolts.

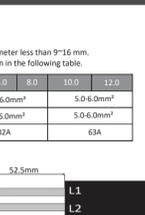


2. Mounting Steps

Step 1: Please make sure the inverter will be installed with a proper distance as shown below.



Step 2: Select the installation location, place the bracket on the wall, and mark the hole positions.



Step 5:

Match the inverter with wall bracket.



Step 6:

Lock the screws on the side (left and right). Make sure the inverter is firmly attached.



3. GRID Connection

Step 1: Prepare AC wire.

Use a live-core cable with a diameter less than $\Phi 16$ mm. Cross-sectional area of wire is shown in the following table.

Model (WT)	5.0	6.0	8.0	10.0	12.0
Cable (DN-GRID)	4.0-6.0mm ²	4.0-6.0mm ²	5.0-6.0mm ²	5.0-6.0mm ²	5.0-6.0mm ²
Cable (EPS)	4.0-6.0mm ²	4.0-6.0mm ²	5.0-6.0mm ²	5.0-6.0mm ²	5.0-6.0mm ²
Micro-Breaker	32A	32A	63A	63A	63A

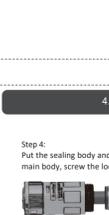
Step 2: Prepare AC wire as shown in the picture.



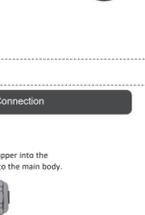
Step 3: Push the threaded sleeve into the socket, tighten up the cap on the terminal. Make sure to hear a "click" sound during this process.



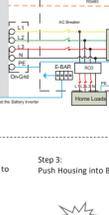
Step 3: Separate the GRID connector into three parts as below. Insert sleeve into the cable.



Step 4: Connect the cable to the GRID connector according to its polarity. Tighten it.



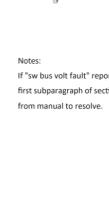
Step 6: Push the threaded sleeve to connection terminal until both are locked tightly on the inverter. Make sure to hear a "click" sound during this process.



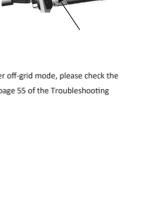
Notes: H3/AC3 is 3L-N-PE/TT, TN-C, TN-C-S and TN-S system. N line is required. Otherwise, an sw bus voltage fault will be triggered.

4. EPS Connection

For countries such as China, Germany, the Czech Republic, Italy, etc, please follow local wiring regulations. This diagram is an example for an application in which neutral is separated from the PE in the distribution box.



For countries such as Australia, New Zealand, South Africa, etc, please follow local wiring regulations. According to Australian safety requirements, the N cables of the grid side and EPS side must be connected together. Otherwise, the EPS function will not work.



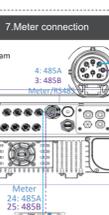
Step 1: Separate the EPS connector into three parts as below. Insert sleeve into the cable.



Step 2: Connect the cable to the GRID connector according to its polarity. Tighten it.



Step 3: Push Housing into Body until hear a "click" sound.



4. EPS Connection

Put the sealing body and yarn trigger into the main body, screw the lock nut into the main body.



Step 5: Insert the EPS connector into the EPS. For the rotation direction of the lock, please refer to the LOCK mark on the assembly.

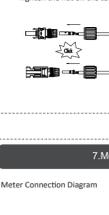


Notes: If "sw bus volt fault" reported under off-grid mode, please check the first subparagraph of section 9 on page 55 of the Troubleshooting manual to resolve.

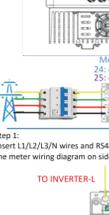
5. PV connection

PV Wiring (For H3 Only)

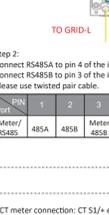
Step 1: Prepare PV wire. Choose 12 AWG wire to connect the PV module. Trim 6mm of insulation from the wire end.



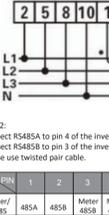
Step 2: Separate the PV connector as below.



Step 3: To insert terminal. Press the wire and terminal tightly with a wire clamp. Rivet terminal. Ensure the cone-nut/rivet of metal parts and cable at same level/riveted metal parts and cable pull tension 2310N.

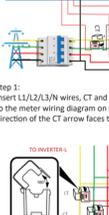


Step 4: Insert pin into the male or female plug. Until hear a "click". Tighten the nut on the terminal.

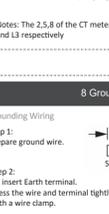


6. BAT connection

Step 1: Prepare BAT wire. We recommend to use the original Bat-Inverter power cable and communication cable from Battery's accessory bag. If require a longer cable, please contact our sales representative to purchase.



Step 2: Connect the power line and communication line between the BMS and the inverter.



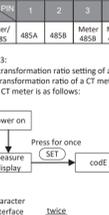
Step 3: Connect the grounding cable to ensure that all batteries are grounded. Wiring shall be connected in the sequence as shown in below.



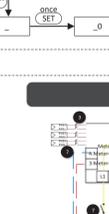
The connection between BMS and inverter should be less than 10m. Notes: The number of battery packs cannot be less than 3 pcs.

7. Meter connection

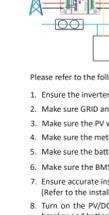
Meter Connection Diagram



Step 1: Connect RS485A to pin 4 of the inverter METER/RS485 port. Connect RS485B to pin 3 of the inverter METER/RS485 port. Please use twisted pair cable.



Step 2: Connect RS485A to pin 4 of the inverter METER/RS485 port. Connect RS485B to pin 3 of the inverter METER/RS485 port. Please use twisted pair cable.

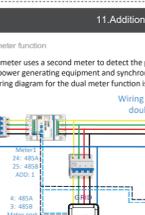


Notes: The number of battery packs cannot be less than 3 pcs.

This CT Meter is not included on the package, please contact our sales to purchase if required.



CT to CT meter connection: CT S1+ end access to the CT meter 1, 4, 7 ports; S2+ end access to the CT meter 3, 6, 9 ports. The following diagram shows the wiring diagram of CT to CT meter:

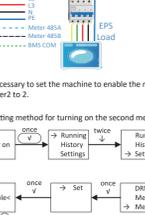


Step 1: Insert L1/L2/L3/N wires, CT and RS485A/B cable into the side of meter shell. During CT use, the direction of the CT arrow faces the grid.

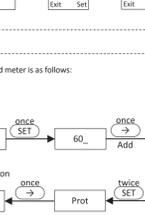


Notes: The 2,5,8 of the CT meter are connected to the three live wires L1, L2, and L3 respectively.

Step 2: Connect RS485A to pin 4 of the inverter METER/RS485 port. Connect RS485B to pin 3 of the inverter METER/RS485 port. Please use twisted pair cable.



Step 3: The transformation ratio setting of a CT meter needs to be consistent with the transformation ratio of a CT meter. The transformation ratio setting method for a CT meter is as follows:



8. Grounding connection

Grounding Wiring

Step 1: Prepare ground wire.



Step 2: To insert Earth terminal. Press the wire and terminal tightly with a wire clamp.



Step 3: screw the ground screw below with screwdriver as shown below.



10. Inverter Start-Up

Please refer to the following steps to start up the inverter.

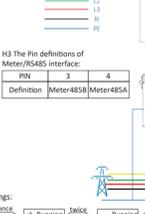
1. Ensure the inverter fixed well.
2. Make sure GRID and EPS wires are completed.
3. Make sure the PV wirings is connected well.
4. Make sure the meter is connected well.
5. Make sure the battery is connected well.
6. Make sure the BMS buttons and battery switch are on.
7. Ensure accurate installation of the monitoring module to the inverter. (Refer to the installation of the monitoring module)
8. Turn on the PV/DC switch (for Hybrid version only). AC breaker, EPS breaker and battery breaker.
9. Check whether each voltage is normal and within the operating range of the machine through the screen on the machine.
10. If the main page shows "Switch off", please long press "Y" bottom to quickly go to the START/STOP page and set it to start. (Enter the settings page, default password is "0000").

Note: When starting inverter for the first time, the country code will be set by default to the local settings. Check if the country code is correct. Set the time on the inverter using the button or by using the APP.

11. Additional Functions

Dual meter function

A dual meter uses a second meter to detect the power generated by other power generating equipment and synchronize it to the EPS platform. The wiring diagram for the dual meter function is as follows.

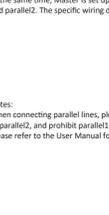


Notes: It is necessary to set the machine to enable the meter2 function and set the address of meter2 to 2.

The setting method for turning on the second meter function of the machine is as follows:



The address setting method for the second meter is as follows:



Communication address



Off-Grid and parallel function

The off network and parallel operation function requires a matching off network and parallel operation box EPS 3P/4-wire, which is a necessary equipment for off network and parallel operation. At the same time, Master is set up to connect parallel and parallel. The specific wiring diagram is as follows:



Notes: When connecting parallel lines, please connect parallel1 to parallel2, and prohibit parallel1 from connecting parallel1. Please refer to the User Manual for specific details.

The specific setting method for setting machines that only connect to Parallel2 as hosts is as follows:



Introduction of EPS BOX PRO

The EPS BOX PRO is a wiring box for the H3. The box has a power distribution meter and switching device that can add all house loads to the load port and can automatically switch the load power to the EPS port of the inverter in the event of an off-grid situation. Below is the reference wiring for the EPS BOX PRO



H3 The Pin definitions of Meter/RS485 interface:

Definition	3	4
Meter/RS485	Meter/RS485	Meter/RS485

Machine settings:



12. WiFi Stick Installation

1. WiFi Stick Installation

Alarm: The collector can only be plugged into the inverter, not any other device.

Step 1: For USB Rotate the lock, make sure the triangle mark is on the front and centered. Plug the Smart WiFi into the WiFi/GPRS port under the bottom (underside) of the inverter. Tighten the nut clockwise as following.



Step 2: Power on the inverter (in accordance with the start-up procedure detailed in the inverter installation manual).

3. Configuration

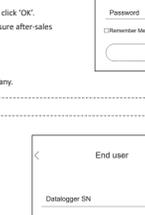
Note: The module is powered on and started, please wait for one minute to start the WiFi Config. Web Configuration

Web Configuration

Step 1: Connect your mobile device with Smart WiFi. The SSID of the Smart WiFi is "Wxxxx" and the password is "mmtm2020".



Step 2: After connecting successfully. Open browser and enter "192.168.1.1" on the address bar on top.



Step 3: Drop down to find SSID menu to find house router and input the house router's password. Step 1: Click 'Save'.

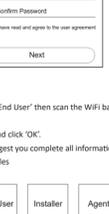


APP Configuration

Step 1: Open the APP, click "Local Distribution Network" on the login page.



Then click "WiFi Config".



Or "WiFi in app, click on the "me" page. Then click "WiFi Config".



Step 2: Please scan the "SN" on the collector.



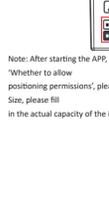
Step 3: Connect your mobile device with Smart WiFi. The SSID of the Smart WiFi is "Wxxxx" and the password is "mmtm2020".



Step 4: Please enter "Device WiFi" and "Password", then click "OK".



Step 5: Distribution network is successful.

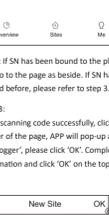


4. Register An Account and Create A Plant

For Installer

Register An Account

Step 1: Please click "Sign Up", enter installer's information to complete the installer account registration.



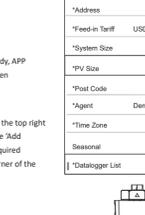
Note: If you already have an installer/agent account, please press "Sign In" and enter with your installer/agent account directly.

Step 2: Select "Installer" and enter installer name, then click "OK". We suggest you complete all information to ensure after-sales service.



Create A Plant

Step 1: Open the APP, login with your installer/agent account.



Note: After starting the APP, it will pop-up a message "Whether to allow positioning permissions", please select "Allow". For the PV Size, please fill in the actual capacity of the installed solar panels.



Step 2: Select "End User" then scan the WiFi bar code on the Smart WiFi, and click "OK". We suggest you complete all information to ensure after-sales.

Step 2: Press the "+" icon on the homepage to add plant. Press the scan icon next to the "Datatagger List" to scan the QR code label on front side of the Smart WiFi.

Note: If SN has been bound to the plant ready, APP will go to the page as beside. If SN has not been bound before, please refer to step 3.

Step 3: After scanning code successfully, click "OK" on the top-right corner of the page, APP will pop-up a message "Add Datatagger", please click "OK". Complete all required information and click "OK" on the top-right corner of the page.

Please scan the QR code and follow the steps below to download our latest multi-language User Manual/Quick Installation Guide: Scan the QR Code -> Select your language -> Choose to download User Manual or Quick Installation Guide -> Download

Note: If SN has been bound to the plant ready, APP will go to the page as beside. If SN has not been bound before, please refer to step 3.

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