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THREE-PHASE HYBRID INVERTER









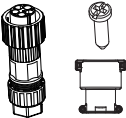

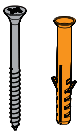
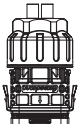






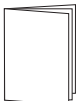
H8000H-EU/H10000H-EU/H12000H-EU

Quick Installation Guide

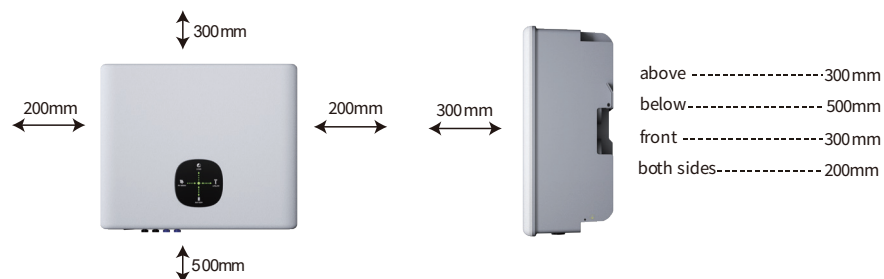
1. Packing List

Upon receiving the hybrid inverter, please check if any of the components as shown below are missing or broken.

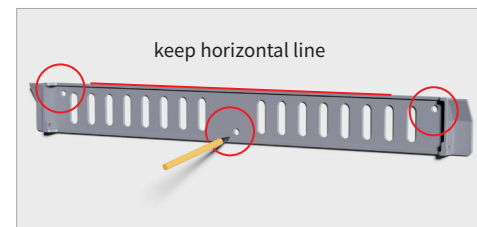
* The images shown here are for reference. The actual product and quantity are based on delivery.

				
Inverter x1	Wall Mount Bracket x1	Black PV positive Connector x2	Black PV negative Connector x2	Blue positive battery Connector x1
				
Blue negative battery Connector x1	Smart Meter x1	AC Load Connector x1	GRID Connector x1 Phillips Screws x4 Protective Cover x1	Screw A x1
				
Expansion screw x3	COM x1	WiFi Module x1	Cord End Terminal x18	Screws B x2
				
RJ45 Waterproof Plug x1	PV Disassembly Tool x1	Meter Communication Cable x1	User Manual x1 Quick Installation Guide x1	

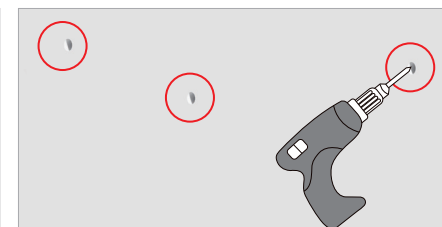
2. Mounting



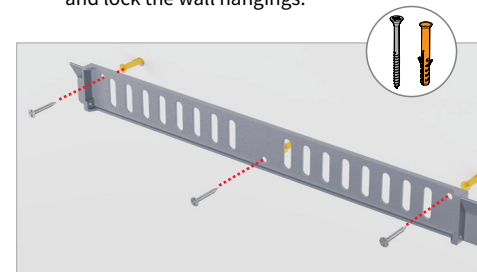
1 The wall hanging is placed horizontally on the installation wall, and the marker pen is used as a punching mark.




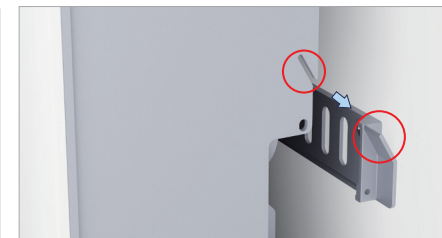
2 Use a percussion drill to drill a diameter of 8mm according to the marked point. Holes with a depth of 60mm.



3 Put the expansion tube into the wall hole, and use the standard self-tapping screws to install and lock the wall hangings.



4 Two people are required to hang the inverter on the wall mount. 



5 Use the standard anti-theft screws to lock both sides of the wall hanging.

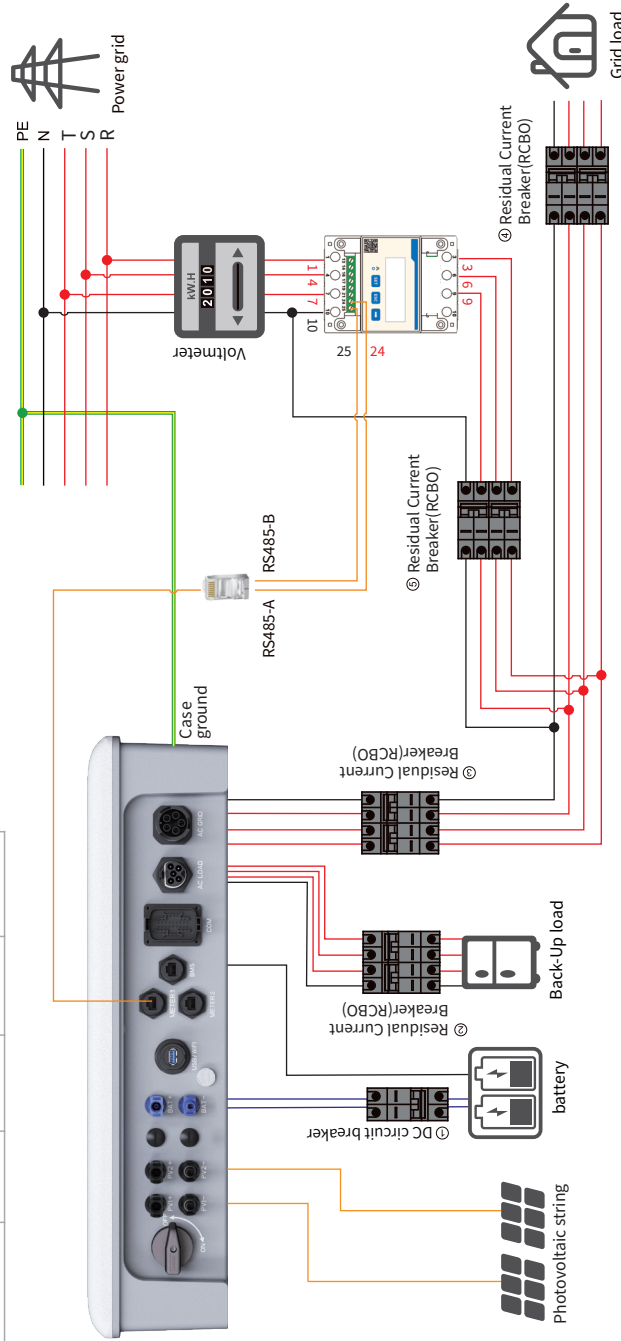


Note: After screwing the left and right screws into the holes, tighten the screws successively!

Select a circuit breaker according to the following specifications:

Inverter	①	②	③	④	⑤
The 12K inverter	60A/650V DC circuit breaker	32A/400V AC circuit breaker	32A/400V AC circuit breaker	Depending on load	Depending on load

1. For batteries with circuit breaker, the external DC circuit breaker can be omitted.
2. Only for lithium batteries with BMS communication.
3. The direction of CT cannot be reversed, and the direction of current points to the inverter.

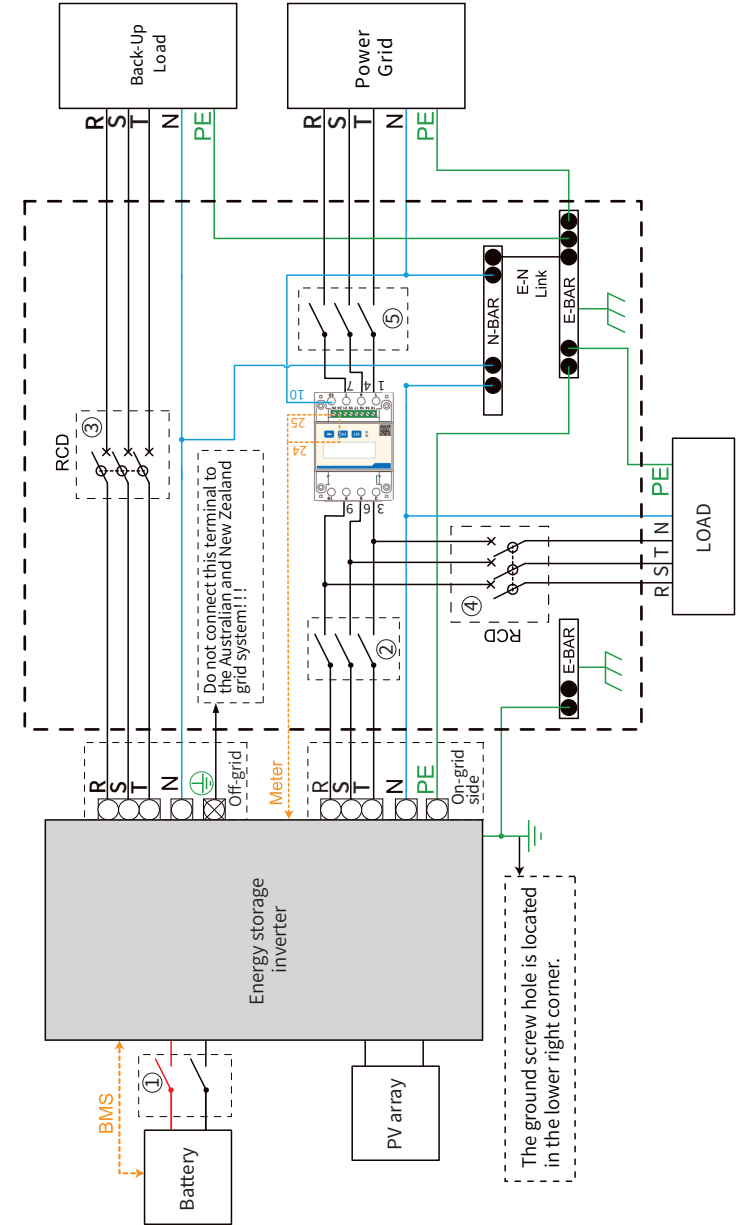


Note: This picture is the wiring structure diagram of the energy storage inverter, not the electrical wiring standard.

Note: According to Australian safety regulations, the neutral wires of the grid-connected side and the off-grid side must be connected together, otherwise the off-grid function cannot be used normally.

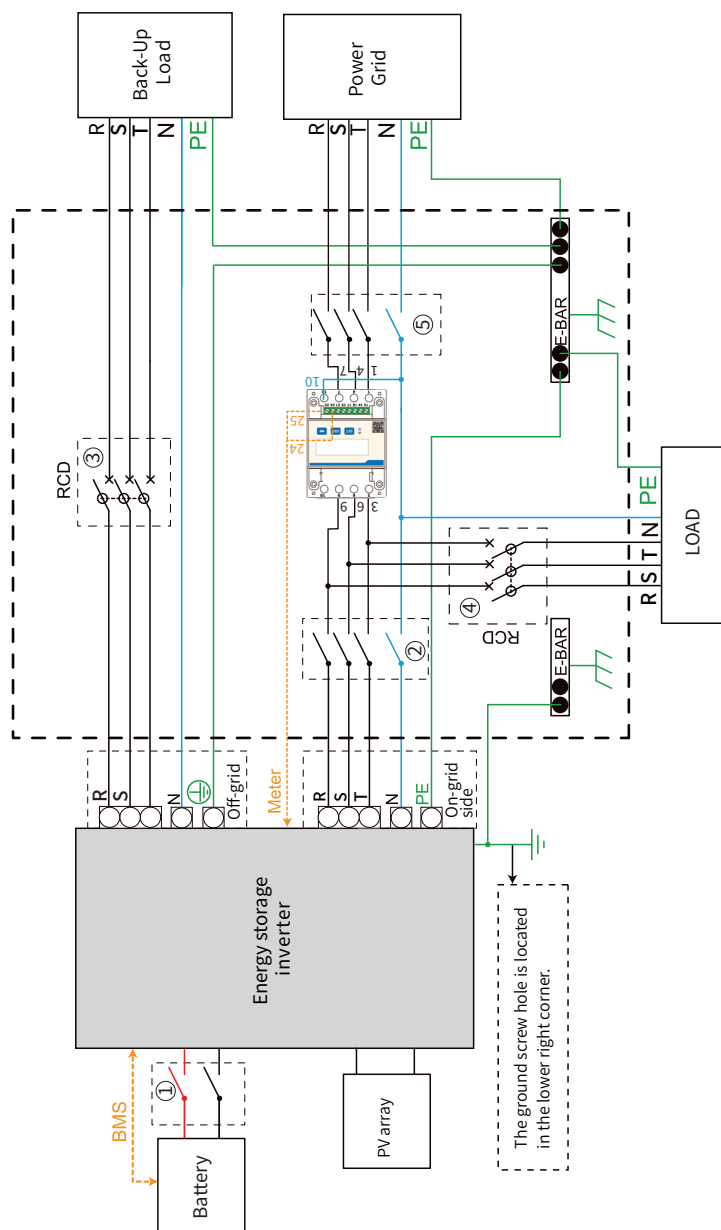
Example of connecting N wires with PE wires in the distribution box

Such as Australia, New Zealand, South Africa, etc. (Please follow the local wiring regulations!)



Schematic representation of grid systems with no special requirements for electrical connections

Note: the off-grid ground wire and ground bar must be properly connected to work properly. Otherwise, the off-grid function may be abnormal when the grid fails.



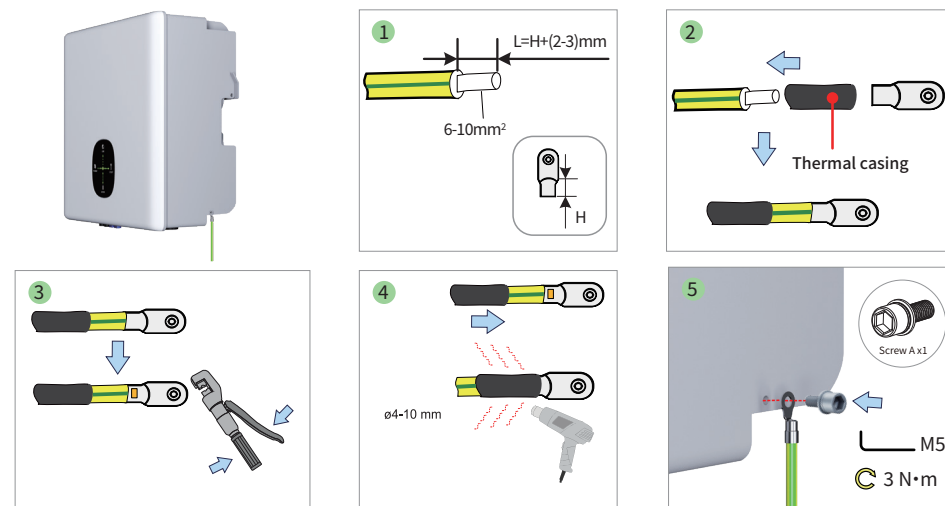
Model	①	②	③	④	⑤
H8000H-EU	60A, $\geq 650V$ DC breaker	32A/400V AC breaker	32A/400V, 3L/N/PE 30mA RCD (Type A)	30mA RCD (Type A), Depending on load	main breaker
H10000H-EU	60A, $\geq 650V$ DC breaker	32A/400V AC breaker	32A/400V, 3L/N/PE 30mA RCD (Type A)	30mA RCD (Type A), Depending on load	main breaker
H12000H-EU	60A, $\geq 650V$ DC breaker	32A/400V AC breaker	32A/400V, 3L/N/PE 30mA RCD (Type A)	30mA RCD (Type A), Depending on load	main breaker

Note:

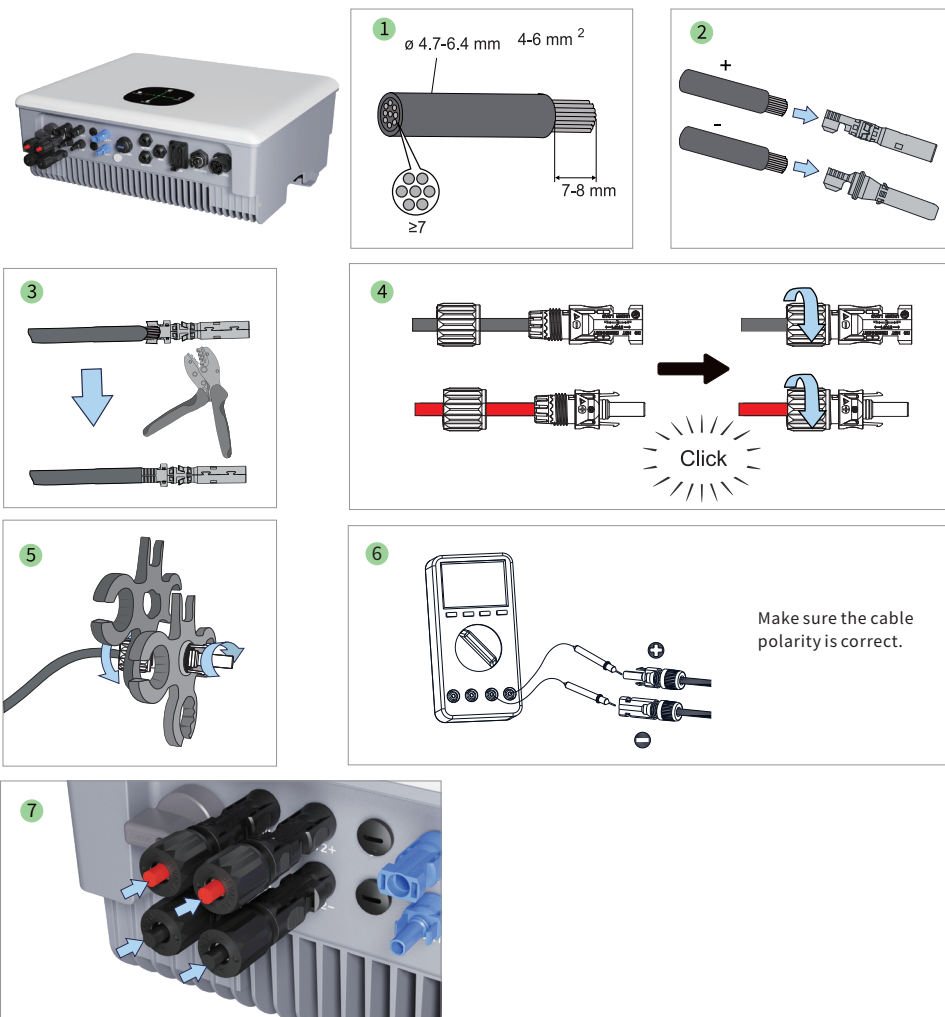
- If the battery has integrated a readily accessible internal DC breaker, then no additional ① DC breaker is required.
- The use of ③④ 30mA RCD is recommended but not mandatory, please comply with local regulations for the system installation.

3. Electrical Connection

Step 1 Grounding Protection Wire

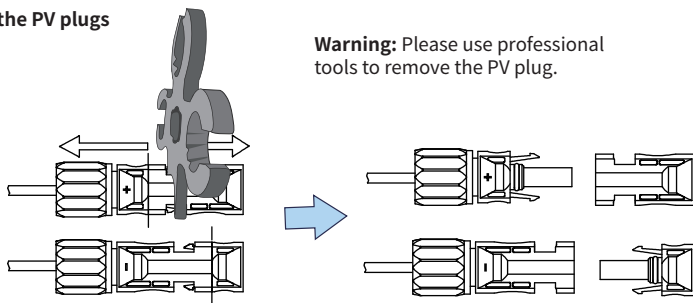


Step 2 PV

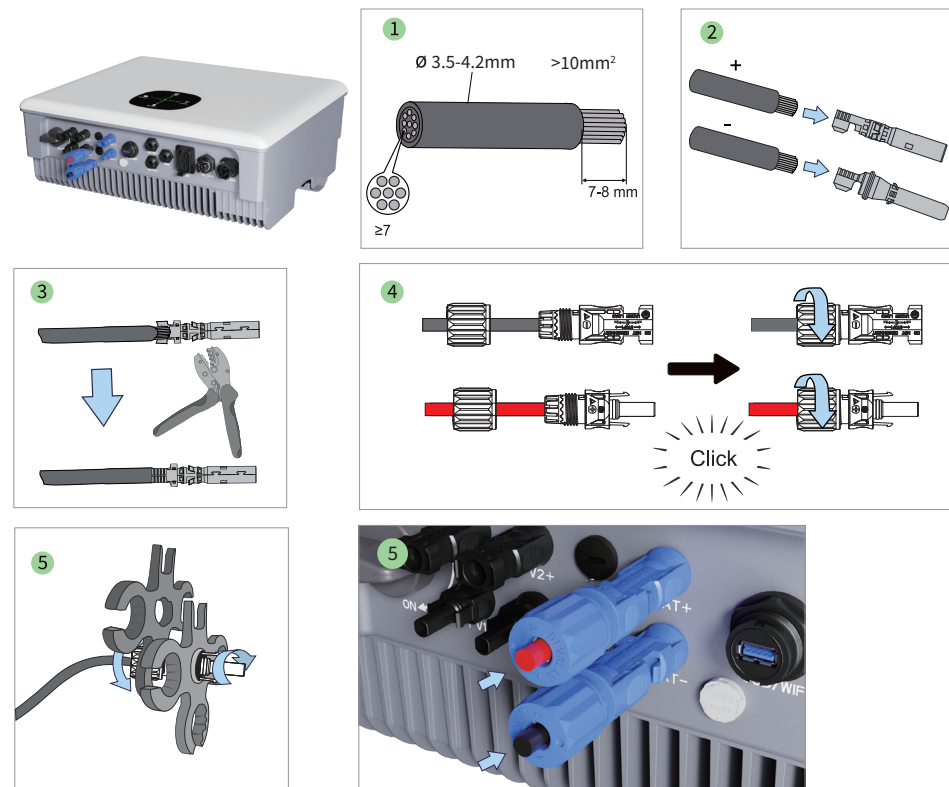


Remove the PV plugs

Warning: Please use professional tools to remove the PV plug.

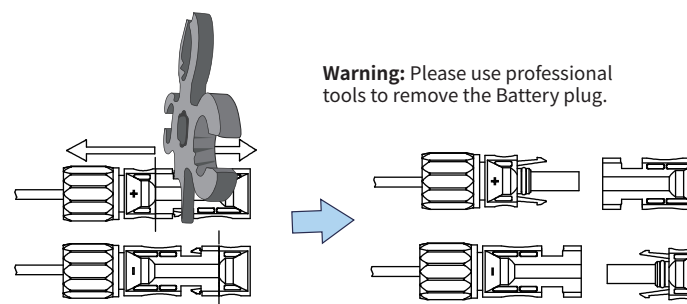


Step 3 Battery

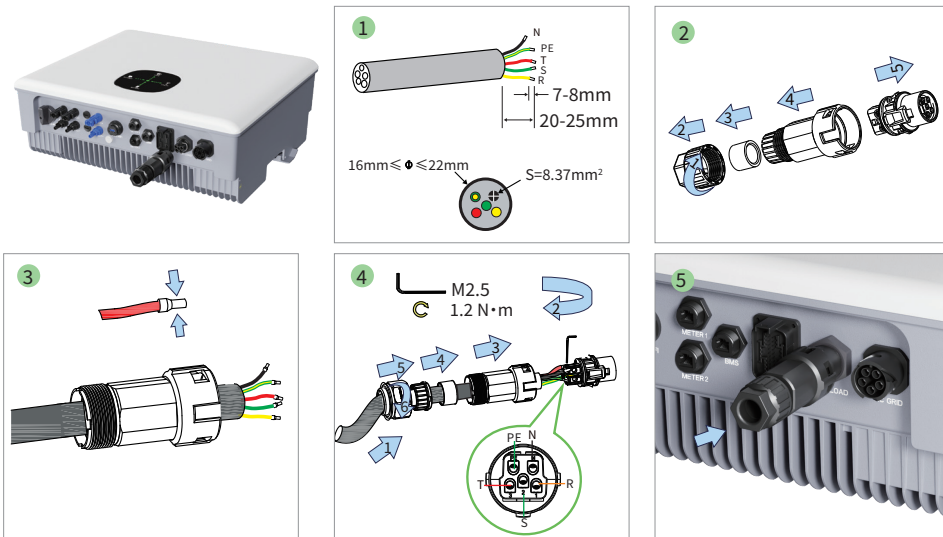


Remove the Battery plugs

Warning: Please use professional tools to remove the Battery plug.

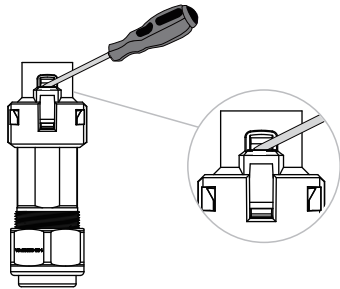


Step 4 AC LOAD



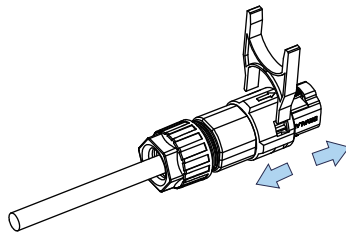
Remove the off-grid plug

- 1 To remove the grid terminals use a tool to hold down the foot buckle on the inverter grid port so that the square openings on the grid terminals are free from the inverter.

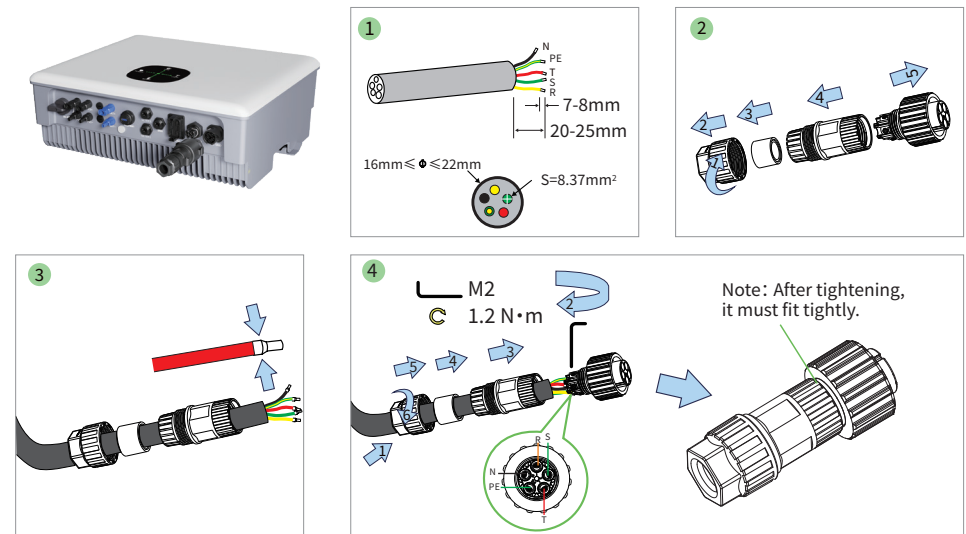


Warning: Disconnect power from grid and equipment, and remove grid terminals by professional installer.

- 2 Insert the H type tool and pull it out from the socket.

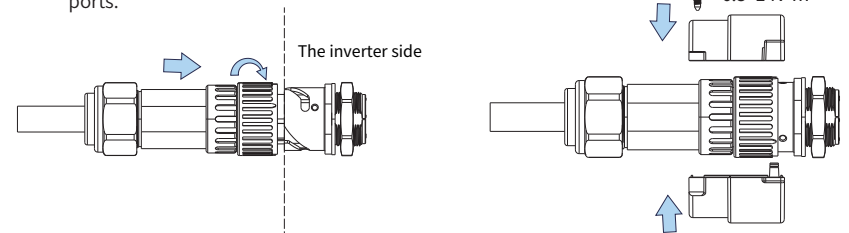


Step 5 AC GRID



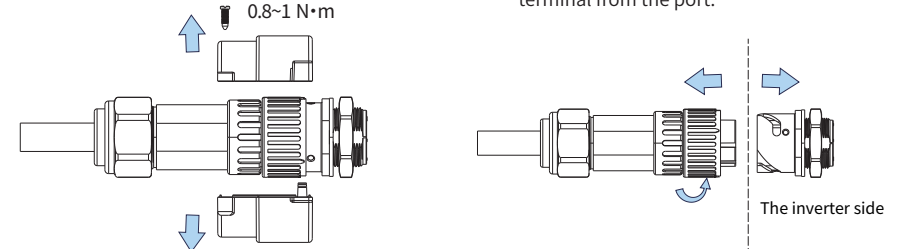
Note: After the grid connector is installed, a protective cover must be added.

- 1 Rotate and twist terminals to splice ports.
- 2 Mounting screw. 0.8~1 N·m



Remove operation

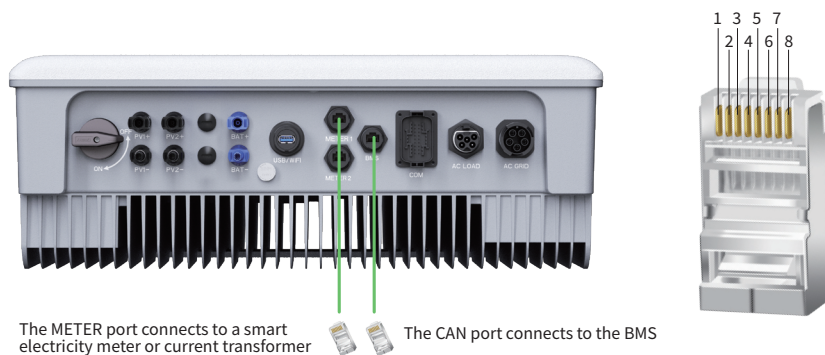
- 1 Remove screw. 0.8~1 N·m
- 2 Rotate and twist the terminal to separate the terminal from the port.



Step 6. Smart Meter and BMS

Inverter BMS Port/Smart Meter function

Pin	Color	CAN(BMS)	Meter1/2
1	Orange and white	WAKE_UP	Meter-485_B
2	Orange	GND	NC
3	Green and white	NC	485_B
4	Blue	CANH	NC
5	Blue and white	CANL	Meter-485_A
6	Green	NC	485_A
7	Brown and white	NC	NC
8	Brown	NC	NC



Step 7. WiFi Module Connection

The Wi-Fi communication function is only applied to WiFi Module.



Step 9. COM Connection Mode



- | | | | |
|--------------|--------------|-------------|----------|
| 1. DRM 1/5 | 2. 485_A | 3. DRM 2/6 | 4. 485_B |
| 5. DRM 3/7 | 6. COM/DRM 0 | 7. DRM 4/8 | 8. REF |
| 9. GND_S | 10. EPO+ | 11. WET_RLY | 12. EPO- |
| 13.14. +12VS | 15.16. DO- | 17.18. DO+ | |

1 Disassemble the COM terminal first.

2 Install the wires as shown below.

Note Wire colors in this illustration do not represent actual colors.

Press and hold the buckles on both ends at the same time.

1. Press and hold the yellow button.
2. Insert the stripped end of the wire into the hole.
3. Release the yellow button.

10mm

3 Connect the COM to the inverter plug until both are tightly locked on the inverter.

4. Online Setting

SOLARMAN Smart APP is an on-line monitoring system for users to use and SOLARMAN Business APP is for installers to use. After completing the communication connection, please visit www.solarman.cn or download the APP by scanning the QR code to monitor your photovoltaic power station and equipment.



SOLARMAN Smart



SOLARMAN Business