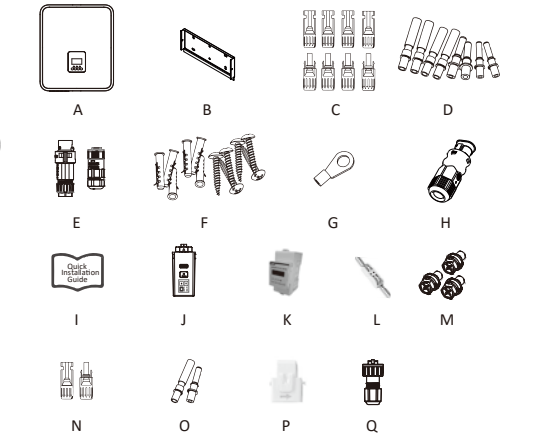


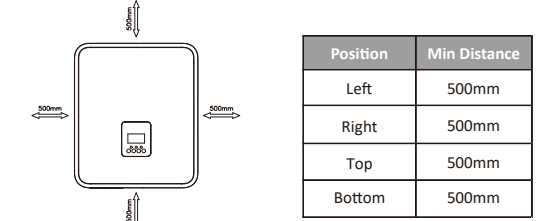
1. Packing List



Object	Quantity	Description	Object	Quantity	Description
A	1	Inverter	J	1	WiFi/LAN/4G (Optional)
B	1	Bracket	K	1	Meter (Optional)
C	6/8	PV connectors (Only for KH) (3* positive, 3*negative)(KH 7-8) (4* positive, 4*negative)(KH 9-10.5)	L	1	CT extension connector
D	6/8	PV pin contacts (Only for KH) (3* positive, 3*negative)(KH 7-8) (4* positive, 4*negative)(KH 9-10.5)	M	3	Hexagonal screws
E	2	AC connectors (1*EPS, 1*GRID)	N	2	Battery connectors (1*positive, 1*negative) Battery pin contacts (1*positive, 1*negative)
F	6	Expansion tubes & Expansion screws	O	2	
G	1	Earth terminal	P	1	CT (with 10m cable)
H	1	Communication connector	Q	1	RJ45
I	1	Quick installation guide			

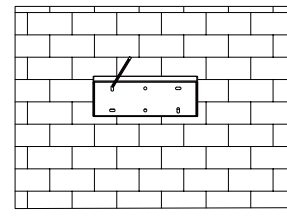
2. Installation Steps

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

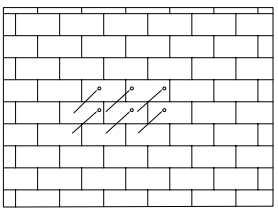


Position	Min Distance
Left	500mm
Right	500mm
Top	500mm
Bottom	500mm

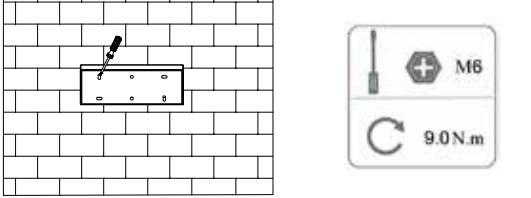
Step1: Fix the bracket on the wall
Choose the place you want to install the inverter.
Place the bracket on the wall and mark the position of the 6 holes from bracket.



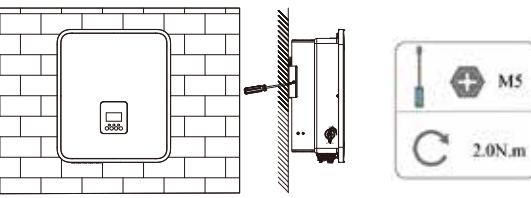
Drill holes with electric drill, make sure the holes are at least 50mm deep and 8mm wide, and then tighten the expansion tubes.



Insert the expansion tubes into the holes and tighten them. Install the bracket with the expansion screws.

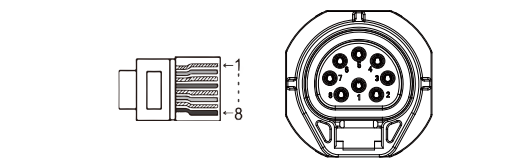


Step2: Match the inverter with wall bracket
Mount the inverter to the bracket. Secure the inverter with the M5 screw and washer.



3. Serial Port Connections

Communication interface between the inverter and CT/Meter/485/DRM/BMS/Parallel 1/Parallel 2 are as follows with RJ45 connectors which should be inserted corresponding port in the inverter.



PIN Port	1	2	3	4	5	6	7	8
CT/ Meter/ 485	Meter 485A	Meter 485B	485B	485A	CT2+	CT2-	CT1-	CT1+
DRM	DRM1	DRM2	DRM3	DRM4	+3.3V	DRM0	GND	GND
Parallel 1	E_STOP	GND_COM	/	Parallel_CANH	Parallel_CANL	/	GND_COM	GENERATOR
Parallel 2	E_STOP	GND_COM	/	Parallel_CANH	Parallel_CANL	/	GND_COM	GENERATOR
BMS	GND	GND	BMS_485B	BMS_CANL	BMS_CANH	BMS_CANH	BMS_CANL	BMS_485A

Note: RJ45 corresponds to DRM/Parallel1/Parallel2/BMS.

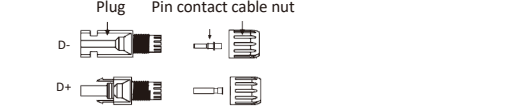
4. Wiring Steps

PV Wiring (For KH version Only)

- Choose 12 AWG wire to connect the PV module.
- Trim 6mm of insulation from the wire end.



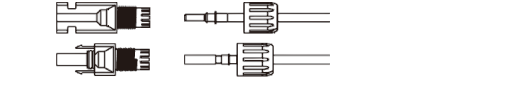
Separate the DC connector (PV) as below.



Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.

Crimp pin contact by using a crimping plier. Put the pin contact with striped cable into the corresponding crimping pliers and crimp the contact.

Insert pin contact through the cable nut to assemble into back of the male or female plug. When you feel or hear a "click" the pin contact assembly is seated correctly.



5. Inverter Start-Up

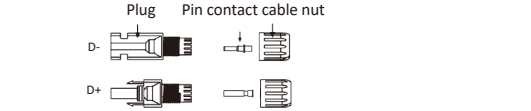
- Unlock the DC connector:
 - Use the specified wrench tool.
 - When separating the DC+ connector, push the tool down from the top.
 - When separating the DC- connector, push the tool down from the bottom.
 - Separate the connectors by hand.

Battery Wiring

- Turn off the DC switch.
- Choose 8 AWG wire to connect the battery.
- Trim 6mm of insulation from the wire end.



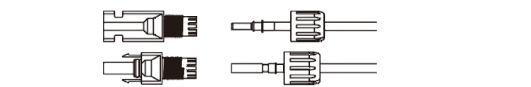
Separate the DC connector (battery) as below.



Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.

Crimp pin contact by using a crimping plier. Put the pin contact with striped cable into the corresponding crimping pliers and crimp the contact.

Insert pin contact through the cable nut to assemble into back of the male or female plug. When you feel or hear a "click" the pin contact assembly is seated correctly.



Unlock the DC connector:

- Use the specified wrench tool.
- When separating the DC+ connector, push the tool down from the top.
- When separating the DC- connector, push the tool down from the bottom.
- Separate the connectors by hand.

QUICK INSTALLATION GUIDE

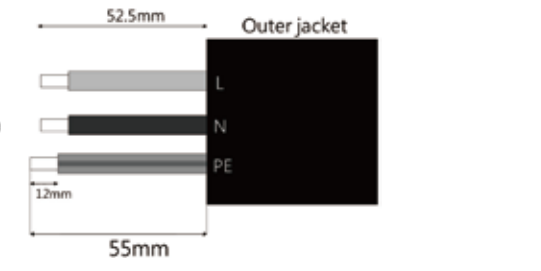
AC Wiring

Cable dimensions

Power (kW)	7.0	8.0	9.0	10.0	10.5
Cable (ON-GRID)	13.0mm ²	13.0mm ²	13.0mm ²	13.0mm ²	13.0mm ²
Cable (EPS)	8.0mm ²	8.0mm ²	8.0mm ²	8.0mm ²	8.0mm ²
Micro-Breaker	100A	100A	100A	100A	100A

Note: If you don't use the EPS function or use on-grid power to charge the battery, the wiring conduct core section can use 8-10mm².

- At the same time, you can choose 63A Micro-Breaker.
- Trim all the wires to 52.5mm and the PE wire to 55mm.
- Use the crimping pliers to trim 12mm of insulation from all wire ends as shown in the picture.



L: Brown/Red Wire
N: Blue/Black Wire
PE: Yellow & Green Wire

Note: Please refer to local cable type and color for actual installation.

A. GRID Wiring

- Separate the ON-GRID plug into three parts as below.

- Hold the middle part of the female insert, rotate the back shell to loosen it, and detach it from female insert.
- Remove the cable nut (with rubber insert) from the back shell.



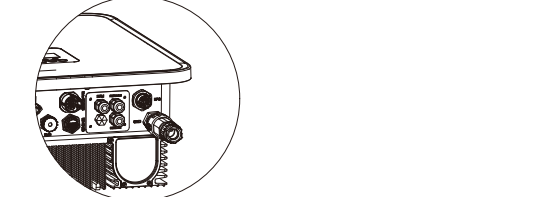
- Slide the cable nut and then the back shell onto the cable. Install the cable into the plug terminal and lock the screw, torque is (3.0 +/- 0.3 N.m).



- Push the threaded sleeve into the socket, tighten up the cap on the terminal.



- Push the threaded sleeve to connection terminal until both are locked tightly on the energy station.

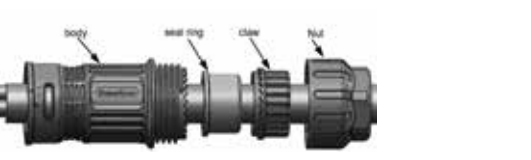


B. EPS Wiring

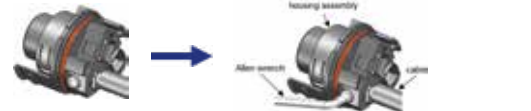
- Remove the ON-GRID connector: Press the bayonet out of the slot with a small screwdriver or the unlock tool and pull it out, or unscrew the threaded sleeve, then pull it out.



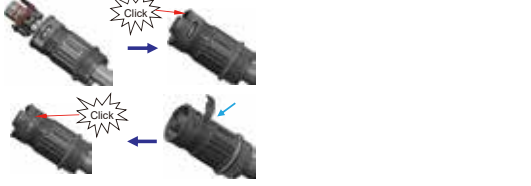
- Set the parts on the cable one by one.



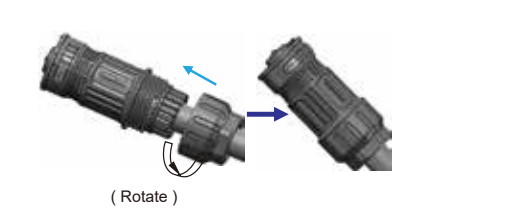
- Wire crimping cord end terminal can be inserted into the housing quickly according to the sign, torque 0.7 +/- 0.1N.M.



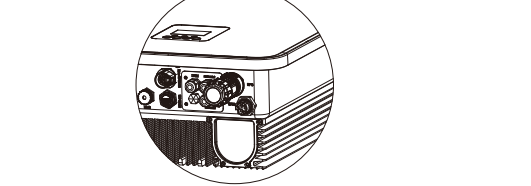
- The housing is inserted into socket, then the unlock key is inserted into socket.



- Insert Seal and Clamp Finger into socket, then tighten the nut, torque 8 +/- 2N.m.

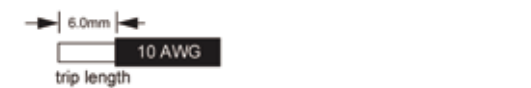


- Push the threaded sleeve to connection terminal until both are locked tightly on the inverter.



Grounding Wiring

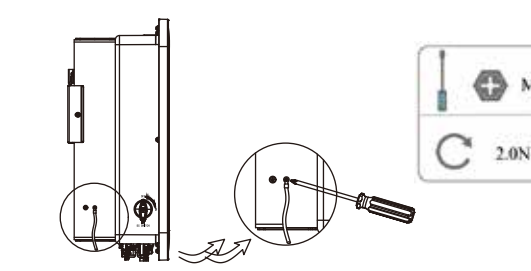
Trim 6mm of insulation from the wire end.



- Insert striped cable into earth terminal and ensure all conductor strands are captured in the earth terminal.

- Crimp earth terminal by using a crimping plier. Put the earth terminal with striped cable into the corresponding crimping pliers and crimp the contact.

Use the crimping pliers to press the ground cable into the ground terminal, screw the ground screw with screwdriver as shown below.



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6. Inverter Switch Off

Please refer to the following steps to switch off the inverter.

- Enter the settings page, select START / STOP and set it to stop.
- Turn off the PV/DC switch (for Hybrid version only), AC breaker, EPS breaker and battery breaker.
- Wait 5 min before you open the upper lid (if in need of repair).

Note: The Ethernet port under inverter is only for local monitoring use (Via register), LAN connection need to purchase a separate product Smart LAN.