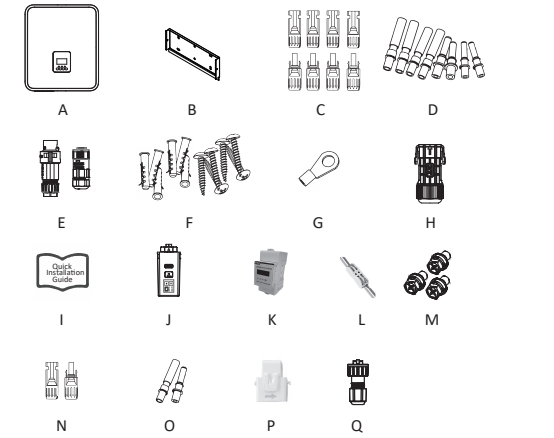


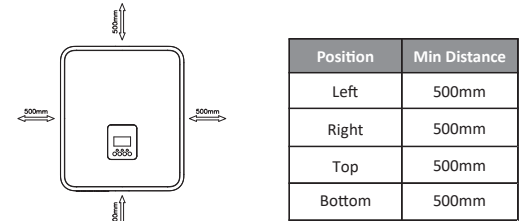
1. Packing List



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)
F	6	Expansion tubes & Expansion screws	O	2	Battery pin contacts (1*positive, 1*negative)
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.

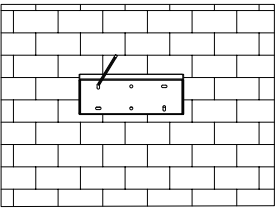


Position	Min Distance
Left	500mm
Right	500mm
Top	500mm
Bottom	500mm

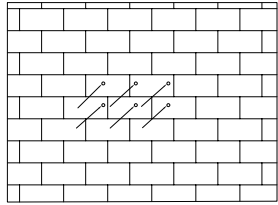
Step1: Fix the bracket on the wall

Choose the place you want to install the inverter.

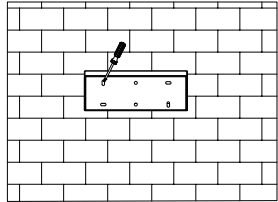
Place the bracket on the wall and mark the position of the 6 holes from bracket.



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

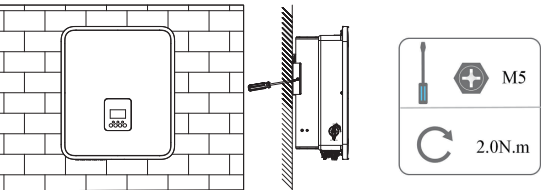


Insert the expansion tubes into the holes and tighten them. Install the bracket with the expansion screws.



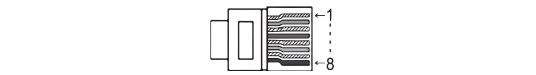
Step2: Match the inverter with wall bracket

Mount the inverter to the bracket. Secure the inverter with the M5 screw and washer.



3. Serial Port Connections

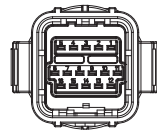
Communication interface between the inverter and CT/Meter/48S/DRM/BMS/Parallel 1/Parallel 2 are as follows with RJ45 connectors which should be inserted corresponding port in the inverter.



PIN Port	1	2	3	4	5	6	7	8
DRM	DRM1	DRM2	DRM3	DRM4	+3.3V	DRM0	GND	GND
Parallel 1	E_STOP	GND_COM	/	Parallel_CANH	Parallel_CANL	/	Parallel_48SB	Parallel_48SA
Parallel 2	E_STOP	GND_COM	/	Parallel_CANH	Parallel_CANL	/	Parallel_48SB	Parallel_48SA
BMS	BMS_AWAKEN	GND	BMS_48SB	BMS_CANL	BMS_CANH	BMS_CANL	BMS_48SA	

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

For 16P:



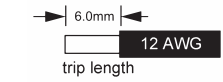
PIN Port	1	2	3	4	5	6	7	8
CT/ Meter/ 48S	Meter 48SA	Meter 48SB	48SB	48SA	CT2+	CT2-	CT1-	CT1+
PIN Port	9	10	11	12	13	14	15	16
CT/ Meter/ 48S	/	K1	K2	K3	K4	/	DI	COM

- Note:
- CT1:For KH/KA, CT2: Grid tied inverter (if have).
  - Compatible Meter type: DDSU666 (CHINT), SDM230 (EASTRON).
  - CT
  - K1/K2, K3/K4 are dry contacts or external heat pump control signals.
  - DI/COM is an external input signal.

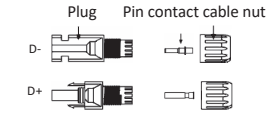
4. Wiring Steps

PV Wiring (For KH version Only)

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

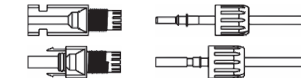


Separate the DC connector (PV) as below.



- 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.

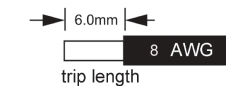


- Unlock the DC connector:
- Use the specified wrench tool.
- When separating the DC+ connector, push the tool down from the top.

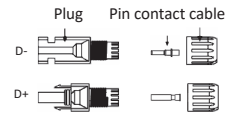
- When separating the DC- connector, push the tool down from the bottom.
- Separate the connectors by hand.

Battery Wiring

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

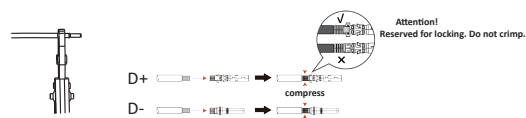


Separate the DC connector (battery) as below.



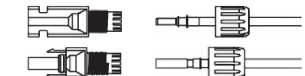
- Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.

- 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.

# QUICK INSTALLATION GUIDE



- 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.

AC Wiring

Cable dimensions

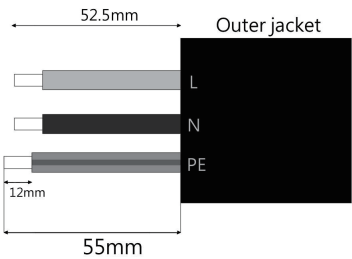
Power (kW)	7.0	8.0	9.0	9.9	10.0	10.5
Cable (ON-GRID)	Conduct Core Section: 13-16mm² Outside Diameter: 16-22mm					
Cable (EPS)	8.0mm²	8.0mm²	8.0mm²	8.0mm²	8.0mm²	8.0mm²
Micro-Breaker	80A	80A	80A	80A	80A	80A

Note: 1) 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.

2) The information concerning 9.9kw applies to the Australian market only.



L: Brown/Red Wire

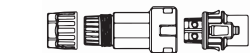
N: Blue/Black Wire

PE: Yellow & Green Wire

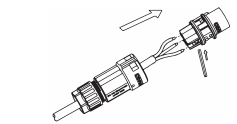
Note: Please refer to local cable type and color for actual installation.

A. GRID Wiring

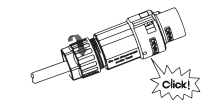
- Separate the ON-GRID plug into three parts as below.
- Hold the middle part of the female insert, rotate the back shell to loosen it, and detach it from female inset.
- Remove the cable nut (with rubber insert) from the back shell.



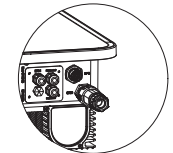
- Slide the cable nut and then the back shell onto the cable. Install the cable into the plug terminal and lock the screw,torque is (3.0+/-0.3 N.m).



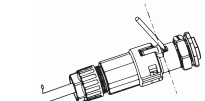
- Push the threaded sleeve into the socket, tighten up the cap on the terminal.



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

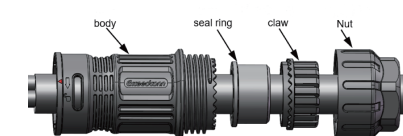


- Remove the ON-GRID connector: Press the bayonet out of the slot with a small screwdriver or the unlock tool and pull it out, or unscrew the threaded sleeve, then pull it out.



B. EPS Wiring

- Set the parts on the cable one by one.



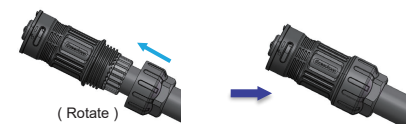
- Wire crimping cord end terminal can be inserted into the housing quickly according to the sign, torque 0.7 +/-0.1N·M.



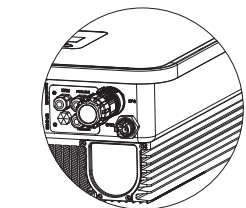
- The housing is inserted into socket.



- 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.

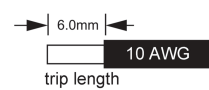


- Remove the EPS connector: press the connector unlock with a small screwdriver or the unlock tool and pull it out.



Grounding Wiring

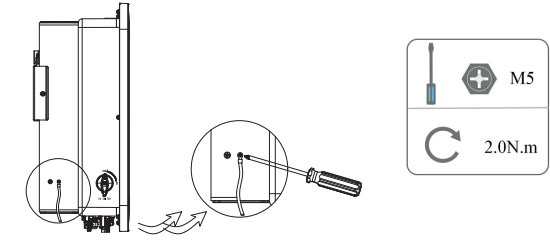
Trim 6mm of insulation from the wire end.



- 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.



5. Inverter Start-Up

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

- Ensure the inverter fixed well.
- Make sure all wirings are completed.
- Make sure the CT/meter is connected well.
- Make sure the battery is connected well.
- Make sure the external EPS contactor is connected well (if needed).
- Make sure the BMS buttons and battery switch off.
- Turn on the PV/DC switch (for Hybrid version only), AC breaker, EPS breaker and battery breaker.
- Enter the settings page, default password is '0000', select START / STOP and set it to start (long press "enter" to quickly go to the START / STOP page).

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.

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.

Please scan the QR Code and follow the steps below to download our latest multi-language User Manual/Quick Installation Guide:  
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