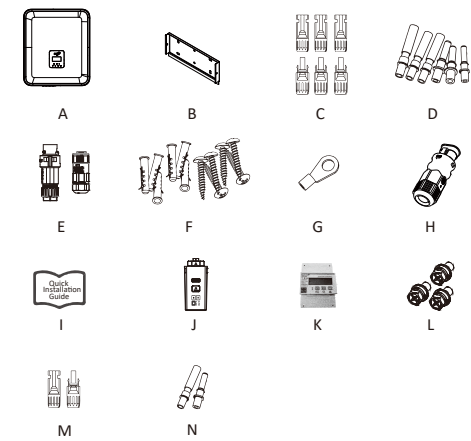


## Quick Installation Guide

5-12kW Three Phase Storage Inverter

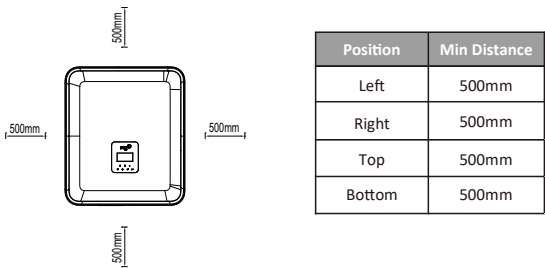
### 1. Packing List



Object	Quantity	Description	Object	Quantity	Description
A	1	Inverter	H	1	Communication connector
B	2	Brackets	I	1	Quick installation guide
C	6	PV connectors (Only for H3) (3*positive, 3*negative)	J	1	WiFi/LAN/GPRS (Optional)
D	6	PV pin contacts (Only for H3) (3*positive, 3*negative)	K	1	Meter
E	2	AC connectors	L	3	Hexagonal screws
F	6	Expansion tubes & Expansion screws	M	2	Battery connectors (1*positive, 1*negative)
G	1	Earth terminal	N	2	Battery pin contacts (1*positive, 1*negative)

### 2. Installation Steps

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

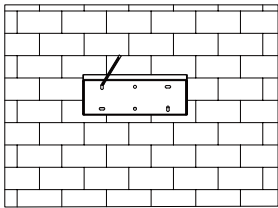


Position	Min Distance
Left	500mm
Right	500mm
Top	500mm
Bottom	500mm

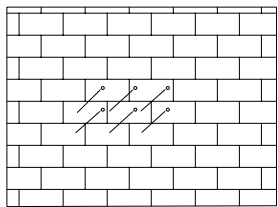
#### Step1: Fix the bracket on the wall

Choose the place you want to install the inverter.

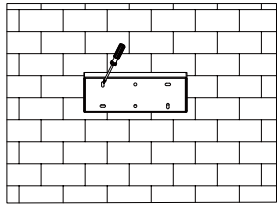
Place the bracket on the wall and mark the position of the 6 holes from bracket.



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

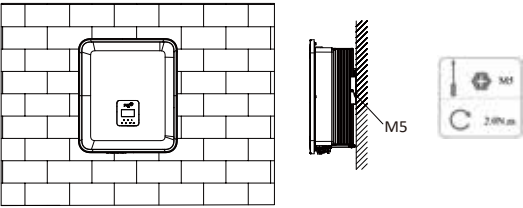


Insert the expansion tubes into the holes and tighten them. Install the bracket with the expansion screws.



#### Step2: Match the inverter with wall bracket

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



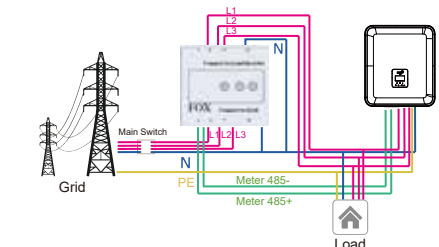
### 3. Serial Port Connections

Meter and RS485 should be connected to inverter by the connector illustrated in the figure below. All ports in connector should connect to the corresponding ports on inverter

PIN	1	2	3	4	5	6	7	8
Port	485A	485B	Meter 485B	Meter 485A	GND	GND	RY_CON	+12V
Meter/485								

Note:

- Compatible Meter type: DTSU666 (CHINT).
- For other pin definitions, please refer to the user manual.
- Communication A and B are marked on the side of the meter;



Note:

Please be noted that the load/inverter connections and grid connections are illustrated in the figure below. Port 10 is specifically for neutral connection.

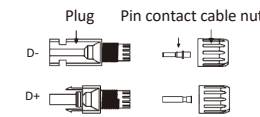
### 4. Wiring Steps

PV Wiring (For Hybrid version Only)

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



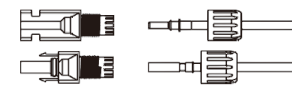
- Separate the DC connector (PV) as below.



- 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.

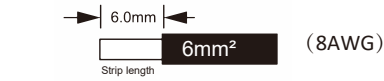


- Unlock the DC connector:

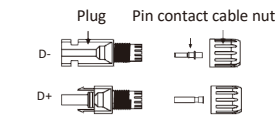
- Use the specified wrench tool.
- When separating the DC+ connector, push the tool down from the top.
- When separating the DC- connector, push the tool down from the bottom.
- Separate the connectors by hand.

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.

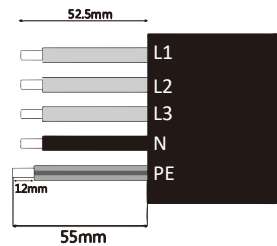
# QUICK INSTALLATION GUIDE

Grid Wiring

Cable dimensions

Modell (kW)	5.0	6.0	8.0	10.0	12.0
Cable (ON-GRID)	4,0-6,0mm²	4,0-6,0mm²	4,0-6,0mm²	4,0-6,0mm²	4,0-6,0mm²
Cable (EPS)	4,0-6,0mm²	4,0-6,0mm²	4,0-6,0mm²	4,0-6,0mm²	4,0-6,0mm²
Micro-Breaker	63A	63A	63A	63A	63A

- 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.



L1/L2/L3: Brown/Red/Green or Yellow Wire

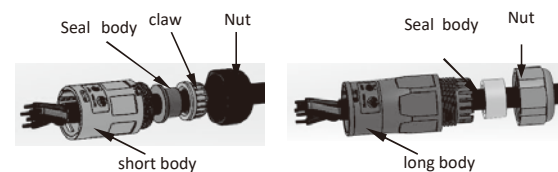
N: Blue/Black Wire

PE: Yellow & Green Wire

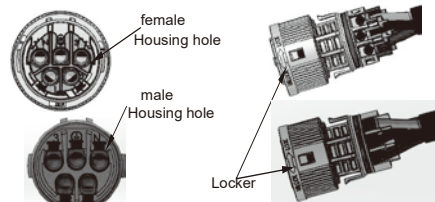
Note: Please refer to local cable type and color for actual installation.

#### A. EPS Wiring

- Set the parts on the cable.



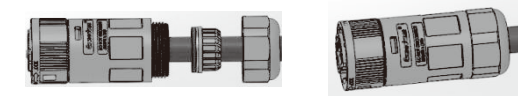
- Crimp wires, screw twisting torque 0.8+/-0.1N.m.



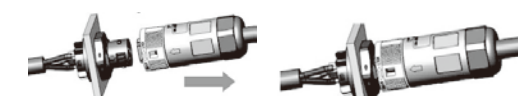
- Push Housing into Body.



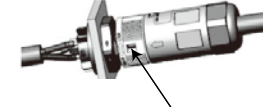
- Put the sealing body and yarn trapper into the main body, screw the lock nut into the main body, and the torque is (2.5 + / - 0.5N.m).



- Insert the male end into the female end. For the rotation direction of the lock, please refer to the LOCK mark on the assembly.

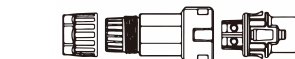


- Remove the EPS connector: Press the bayonet with a small screwdriver or the unlock tool. Rotate the sleeve referring to the UNLOCK mark on the assembly, then pull it out.

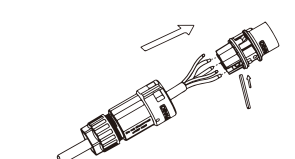


#### B. GRID Wiring

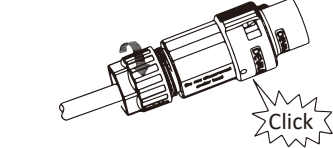
- Separate the ON-GRID plug into three parts as below.
  - Hold the middle part of the female insert, rotate the back shell to loosen it, and detach it from female insert.
  - Remove the cable nut (with rubber insert) from the back shell.



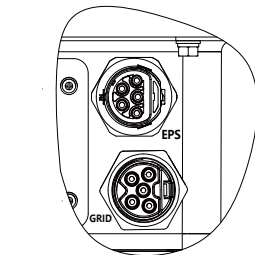
- Slide the cable nut and then the back shell onto the cable.



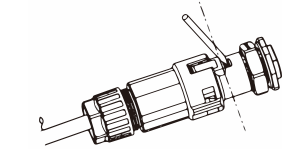
- Push the threaded sleeve into the socket, tighten up the cap on the terminal.



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



- Remove the 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.



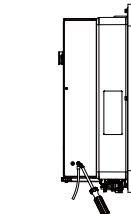
Grounding Wiring

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 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 are off.
- Turn on the PV/DC switch (for Hybrid version only), AC breaker, EPS breaker and battery breaker.
- If the main page shows "switch off", please long press "v" 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.

### 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 an separate product Smart LAN.
- The inverter installation in complete. For battery installation, please refer to battery quick installation guide.