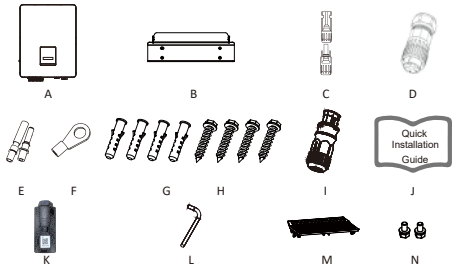
Quick Installation Guide

3-25kW Three Phase Inverter

1. Packing List



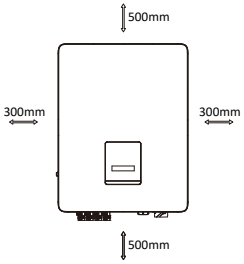
Object	Quantity	Description	Object	Quantity	Description
A	1	Inverter	H	4	Expansion screw
B	1	Bracket	I[1)]	1	Communication connector
C[2)]	4/8	DC connector (F*2/4, M*2/4)	J	1	Quick installation guide
D	1	AC connector	K	1	WiFi/4G (Optional)
E[2)]	4/8	DC pin contact (positive contact*2/4, negative contact*2/4)	L	1	Screwdriver
F	1	Earth terminal	M	1	Filter (for fan cooling inverter)
G	4	Expansion tube	N	2	Screw

Note:1)For the communication connector , two different type connectors are possible. Please refer to chapeter 6.3 of User Manual for detial information.

2)In different type of model, the number of DC connector and DC pin contact in the package is different, please refer to the User Manual page 10 for more details.

2. Inverter Installation

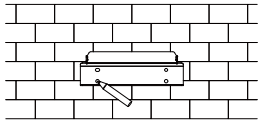
Please make sure the inverter will be installed with a proper distance as shown below.



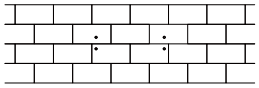
Position	Min Size
Left	300mm
Right	300mm
Top	500mm
Bottom	500mm
Front	500mm

Step 1: Fix the bracket on the wall

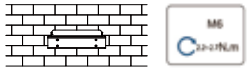
Choose the place you want to install the inverter. Place the bracket on the wall and mark the position of the 4 holes from bracket.



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

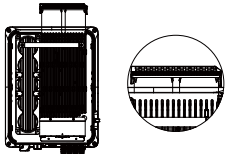


Insert the expansion tubes into the holes and tighten them. Install the bracket with the expansion screws.

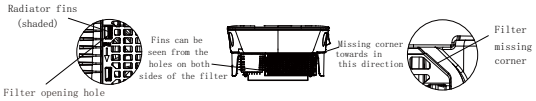


Step 2: Install the filter on top side (for fan cooling inverter)

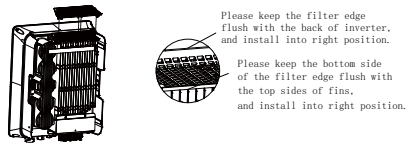
Put the filter into the right position as shown by below figure. Align the long legs on both side of the filter with the outermost fin.



Please keep the top of fliter flush with the back of inverter.Please adjust to the position where the lateral fins can be seen from the holes on both sides of the filter according to the figure in which the arrow towards to the wall.

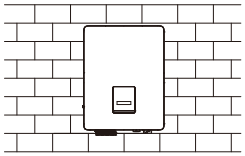


Press the filter down from the top. Check if all fins are covered by filter. Ensure that the filter is installed and secured in right position.

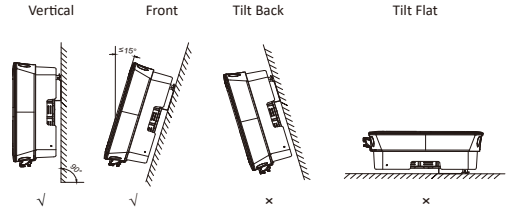


Step 3: Match the inverter with wall bracket

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



Please refer to the correct installation method to insatall：



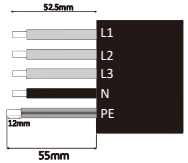
3. Wiring Steps

AC Wiring

Cable dimensions

Power (kW)	3.0	4.0	5.0	6.0	8.0	10.0	12.0	15.0	17.0	20.0	23.0	25.0
Cable	2.5~6mm²				4~6mm²			6~10mm²				10mm²
Micro-Breaker	16A				25A			40A		50A		60A

- 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.

- Separate the AC plug into three parts.

- Insert the sleeve assembly into the cable.

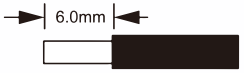
- Install the copper wire into the plug terminal and lock the screw.

- Lock the lock nut and the sleeve(3~5N·m), lock the sleeve and the plug(1.5~1.7N·m).

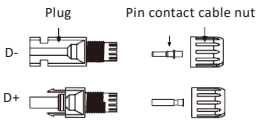
- Insert the plug assembly into the socket (inverter end) and lock each other by the coupling twist.

DC Wiring

- Turn off the DC switch.
- Choose 2.5 mm² wire to connect the PV module.
- Trim 6mm of insulation from the wire end.

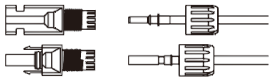


- Separate the DC connector as below.



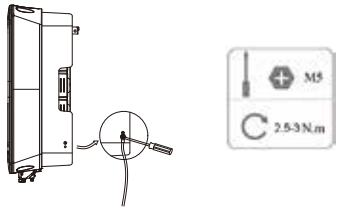
- Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.
- Crimp pin contact by using a crimping plier. Put the pin contact with striped cable into the corresponding crimping pliers and crimp the contact.

- 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.



Grounding Wiring

Screw the ground screw with screwdriver as shown below.



Communication and Monitoring

This series of inverters provide two RS485 ports. You can monitor the inverter via RS485. Another RS485 port is used to connect a smart meter (stand-alone anti-backflow function). Maximum torque of lock wire is 0.2N·M. The PIN definitions of RS485/DRM0/ESTOP interface are as below.

PIN	Definition	Remarks
1	RS485B1	RS485 communication port
2	RS485A1	
3	RS485B2	Meter communication port
4	RS485A2	
5	GND	
6	DRM0	Short pin 6 connects to 5 to operate the disconnection device.
7	+12V	
8	ESTOP	Short pin 8 connects to 5 to stop the inverter emergency.

Note:1)There are two different types of communication connectors.

2)The pin definication for both connector are the same.

3)Maximum torque of lock wire is 0.2N·M for both connector.

4. Startup Procedure

1. After checking all connections are correct, turn on the external DC /AC breakers.
2. Turn the DC switch to “ON” position.
3. Inverter will start automatically when PV panels generate enough energy, the LED will flash.
4. Complete inverter Start-up guide
   After the initial start-up the inverter, display will go to the language settings page, short press to switch language and long press to confirm selection. Once language set, display will guide to set the safety regulation. Short press to switch safety regulation, and long press to confirm selection.

Note:

- Please select the correct country code.
- Set the time on the inverter using the button or by using the APP.
- Please DO NOT apply USB3.0 on inverter USB port, the inverter USB port only support for USB2.0.

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