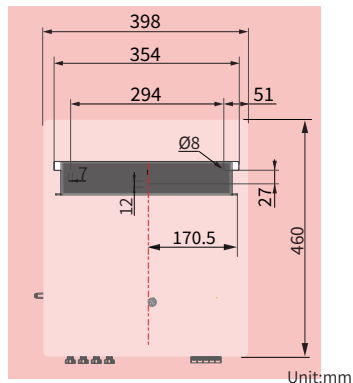
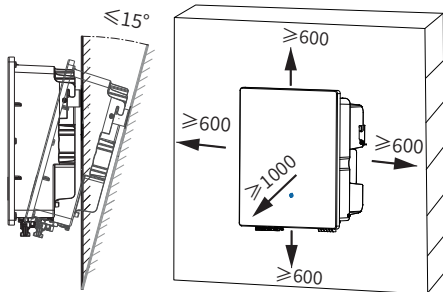
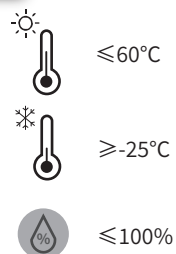


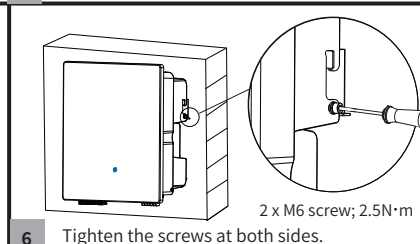
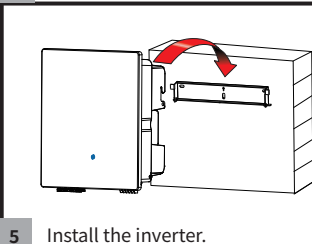
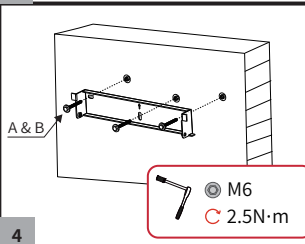
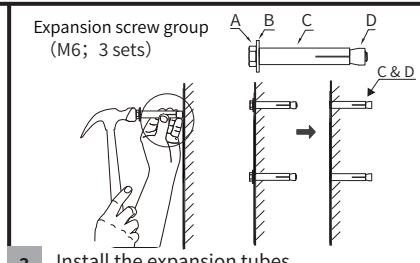
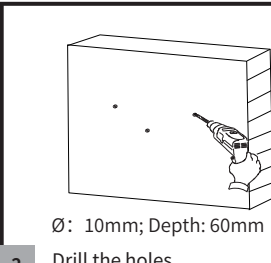
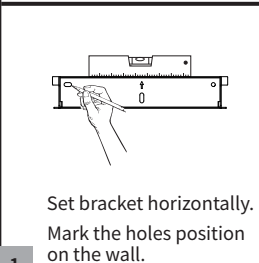
QUICK INSTALLATION GUIDE Three-phase Grid-tied PV String Inverter 5K-30K

1 INSTALLATION LOCATION



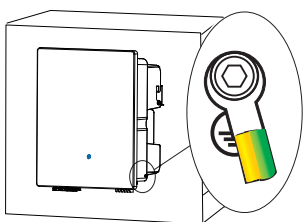
2 INSTALLATION

- The walls must be fireproof and non-flammable materials, otherwise there is a fire risk.
- Before drilling holes, check whether there are electric power pipes or other pipes buried in the walls to avoid risks.



3 GROUNDING

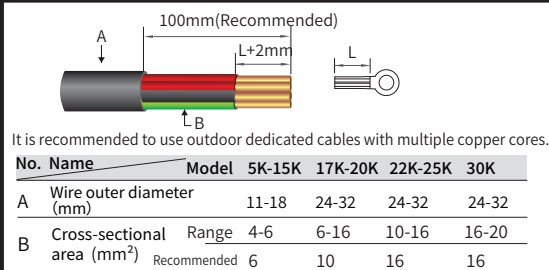
- According to regulations, the secondary protection grounding can't replace the PE terminal connection of the AC cable. Ensure that both are grounded reliably.
- Ensure that inverter and all cables to be installed are completely powered off during whole installation and connection. Otherwise, fatal injury can occur due to the high voltage.



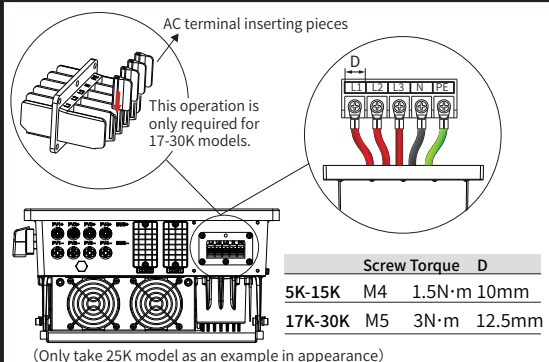
Items	Remark
Screw	M6 X 12mm; 2.5 N·m
OT Terminal	OT6-6 (5K-15K) ; OT16-6 (17K-30K)
Yellow green lines	$S_{\text{Yellow green lines}} \geq S_{\text{PE line of AC cable}}$ S is the cross-sectional area.
Ensure that the grounding resistance is less than 10Ω.	

AC CONNECTION

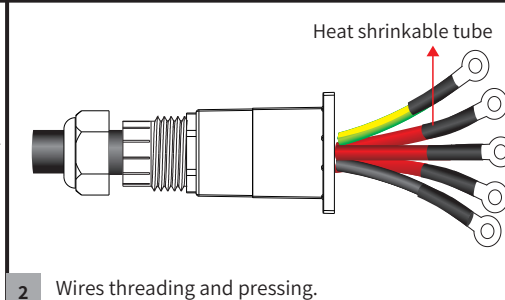
- Before connecting the AC terminal, ensure that both the AC terminal and the DC terminal are powered off and the DC switch is OFF. Otherwise there is a risk of high voltage shock.



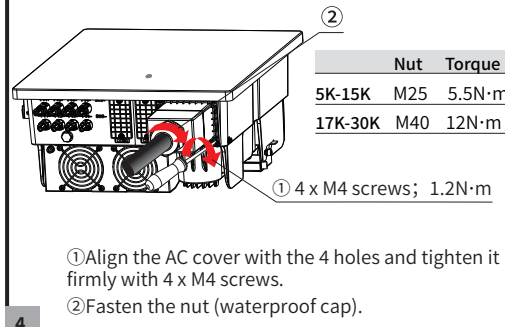
1 Wires making.



3 Lock the AC cable to the corresponding AC terminals.

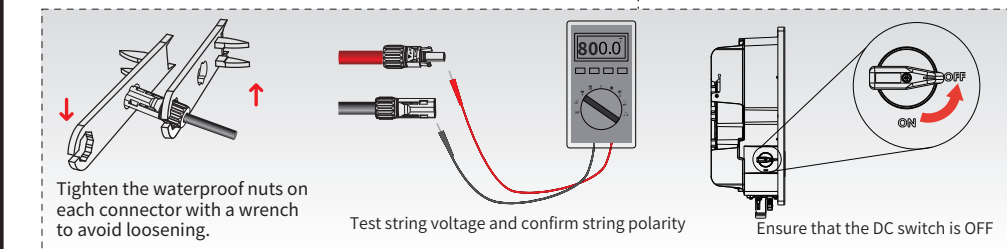
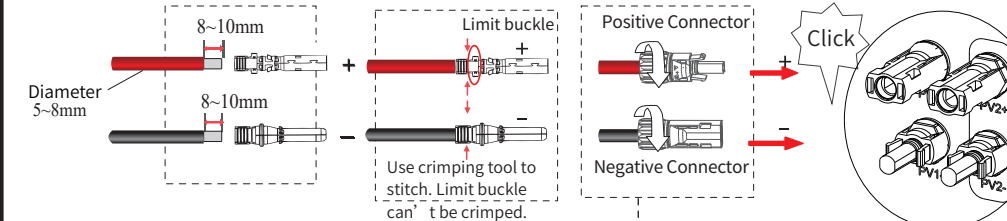


2 Wires threading and pressing.



PV CONNECTION

- Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
- Before connecting the DC terminal, ensure that both the AC terminal and the DC terminal are powered off and the DC switch is OFF. Otherwise there is a risk of high voltage shock.



Note: DC cable should be dedicated PV cable (suggest using 4~6mm² PV1-Fcable).

RS485 CONNECTION

6

RS485 communication mode with multiple inverters

RS485 Communication cable (22AWG)

Threaded sleeve

Nut

Connect the differential positive and negative signal wires of the first RS485 cable from the data logger to Pin1 and Pin2 of the 6-Pin terminal respectively. If there is more than one inverter, connect Pin3 and Pin4 to Pin1 and Pin2 of another inverter.

1

Loosen the screws and remove the cover plate.

COM2

1	A
2	B
3	A
4	B
5	PE
6	PE

1	DO1
2	ALM
3	EXT_SIG
4	DI2
5	DI1
6	GND

3

Insert the 6-Pin terminal into the RS485 communication port.

2

Wires making, threading and wiring.

4

2 x M4 screws; 0.8N·m

0.8~1.5N·m

COM2

Install the RS485 cover.

1

Download the APP.

- Scan the QR code on the inverter to download the APP.
- Download the APP from the App Store or Google Play.

Note: the APP should access some permissions such as inverter's location. You need to grant all rights in all pop-up windows when installing the APP or setting your phone.

2

Power on the inverter.

3

Connect the Inverter.

Open the Bluetooth on your own phone, then open the APP. Then follow the instructions below.

Account name

Password

Remember Password

LOGIN

REGISTER NEW USER

Password forgotten

AP Connection

Bluetooth Connection

Inverter List

Scanning machine SN barcode

If you cannot recognize or have no barcode, select "Enter SN" or "Manual connection"

Can not find inverter code

Enter SN

Turn on Flashlight

Manual connection

Inverter Time Wrong

Do you want to synchronize date and time with the mobile phone?

CANCEL

OK

5

RS485 communication address setting.

4

Go to Console > Communication Setting > RS485 Setting > Modbus Page, check the Modbus address (the default value is 1), and click to modify the address as required if necessary.

RS485 communication address setting.

5

RS485 communication address setting.

WIFI/GPRS/LAN MODULE INSTALLATION (OPTIONAL)

7

For details, please refer to the corresponding Module Installation Guide in the packing. The appearance of modules may be slightly different. The figure shown here is only for illustration.

1

Loosen two screws and move the cover.

2

Insert GPRS/WiFi/LAN module into COM1 port, and ensure that it does not fall off.

3

2 x M4 screws; 0.8N·m

0.2~0.3N·m

Install/secure the module.

STARTUP / SHUTDOWN PROCEDURE

8

Inspection

No.	Items
1	The inverter is firmly installed.
2	There is enough heat dissipation space, no external objects or parts left on the inverter.
3	It is convenient for operation and maintenance.
4	The wiring of the system is correct and firm.
5	Check whether the DC and AC connections are correct with a multimeter, and whether there is a short circuit, break, or wrong connection.
6	Check whether the waterproof nuts of each part are tightened.
7	The vacant port has been sealed.
8	All safety labels and warning labels on the inverter are complete and without occlusion or alteration.

After the inverter is powered off, the remaining electricity and heat may still cause electrical shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.

Startup Procedure

1 Supply Main Switch (See if there's any on site)

2 AC Circuit Breaker (OFF ON)

3 DC Switch (OFF ON)

4 LED icon: Blue on (normal status)

Shutdown Procedure

1 Supply Main Switch (See if there's any on site)

2 AC Circuit Breaker (OFF ON)

3 DC Switch (OFF ON)