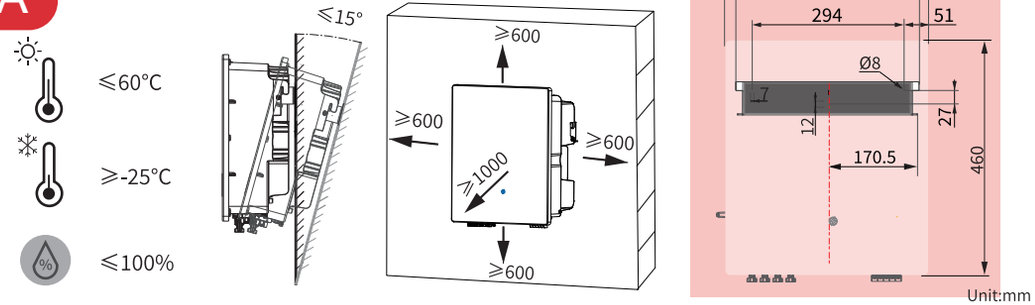
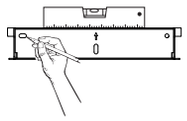
QUICK INSTALLATION GUIDE Three-phase Grid-tied PV String Inverter 6K-25K

A INSTALLATION LOCATION

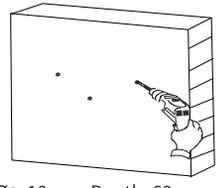


B INSTALLATION

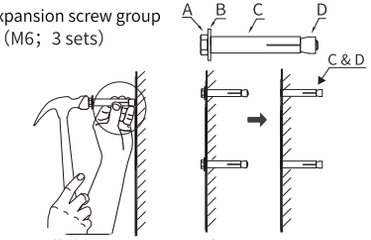
1. The walls must be fireproof and non-flammable materials, otherwise there is a fire risk.
2. Before drilling holes, check whether there are electric power pipes or other pipes buried in the walls to avoid risks.



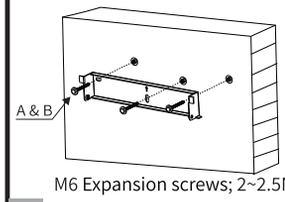
1 Set bracket level.
Mark the holes position on the wall.



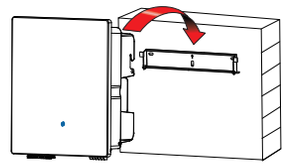
Ø: 10mm; Depth: 60mm
2 Drill the holes.



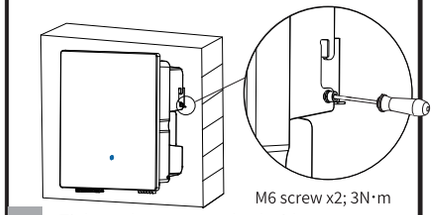
3 Install the expansion tubes.



M6 Expansion screws; 2~2.5N·m
4 Install bracket.



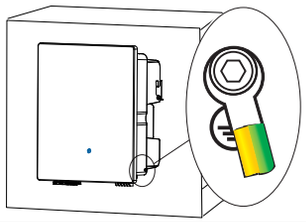
5 Install the inverter.



6 Tighten the screws at both sides.

C GROUNDING

1. According to regulations, the secondary protection grounding can't replace the PE terminal connection of the AC cable. Ensure that both are grounded reliably.
2. 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.

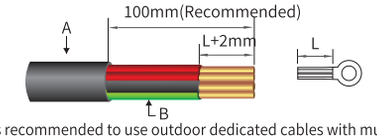


Items	Remark
Screw	M6 X 12mm; 3 N·m
OT Terminal	OT6-6 (6K-15K) ; OT16-6 (20K-25K)
Yellow green lines	S(Yellow green lines) ⩾ S(PE line of AC cable) S is the cross-sectional area.

Ensure that the grounding resistance is less than 10Ω.

D AC CONNECTION

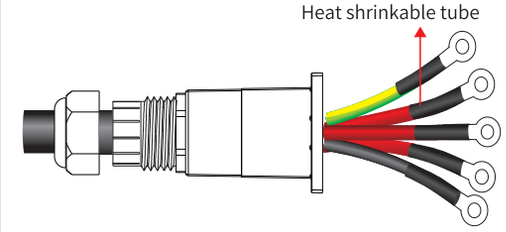
Before connecting the AC terminal, ensure that both the AC terminal and the DC terminal are powered off and the DC switch is OFF. Otherwise there is a risk of high voltage shock.



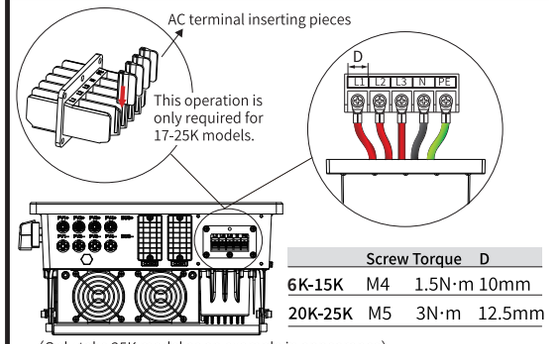
It is recommended to use outdoor dedicated cables with multiple copper cores.

No.	Name	Model	6K-15K	20K	22K-25K
A	Wire outer diameter (mm)		11-18	24-32	24-32
B	Cross-sectional area (mm^2)	Range	4-6	6-16	10-16
		Recommended	6	10	16

1 Wires making.



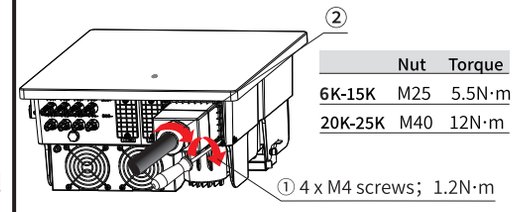
2 Wires threading and pressing.



	Screw	Torque	D
6K-15K	M4	1.5N·m	10mm
20K-25K	M5	3N·m	12.5mm

(Only take 25K model as an example in appearance)

3 Lock the AC cable to the corresponding AC terminals.



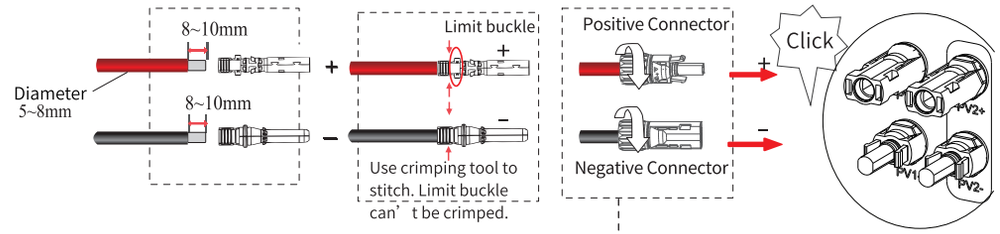
	Nut	Torque
6K-15K	M25	5.5N·m
20K-25K	M40	12N·m

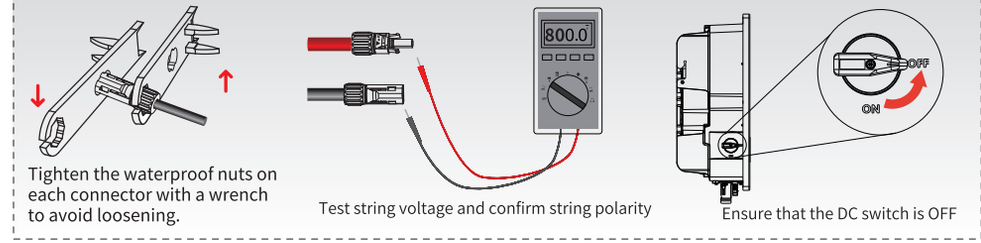
①Align the AC cover with the 4 holes and tighten it firmly with 4 x M4 screws.
②Fasten the nut (waterproof cap).

4

E PV CONNECTION

1.Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
2.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.





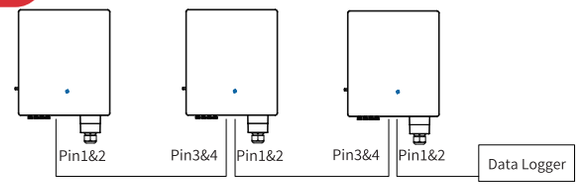
Tighten the waterproof nuts on each connector with a wrench to avoid loosening.

Test string voltage and confirm string polarity

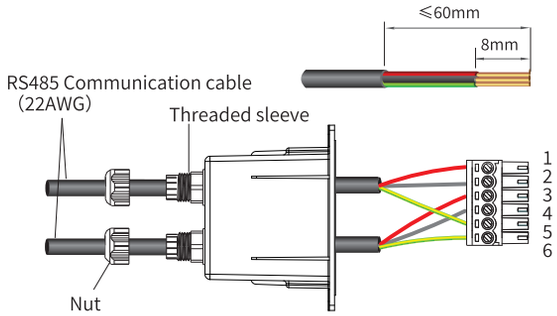
Ensure that the DC switch is OFF

Note: DC cable should be dedicated PV cable (suggest using 4~6mm^2 PV1-Fcable).

F RS485 CONNECTION

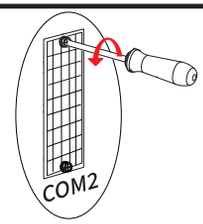


RS485 communication mode with multiple inverters

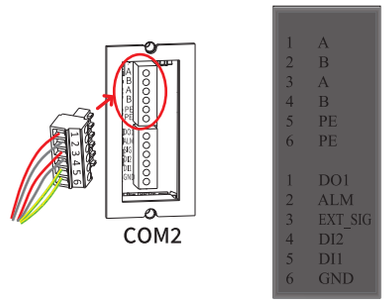


Connect the differential positive and negative signal wires of the first RS485 cable from the data logger to Pin1 and Pin2 of the 6-Pin terminal respectively. If there is more than one inverter, connect Pin3 and Pin4 to Pin1 and Pin2 of another inverter.

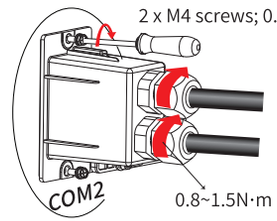
2 Wires making, threading and wiring.



1 Loosen the screws and remove the cover plate.



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



4 Install the RS485 cover.

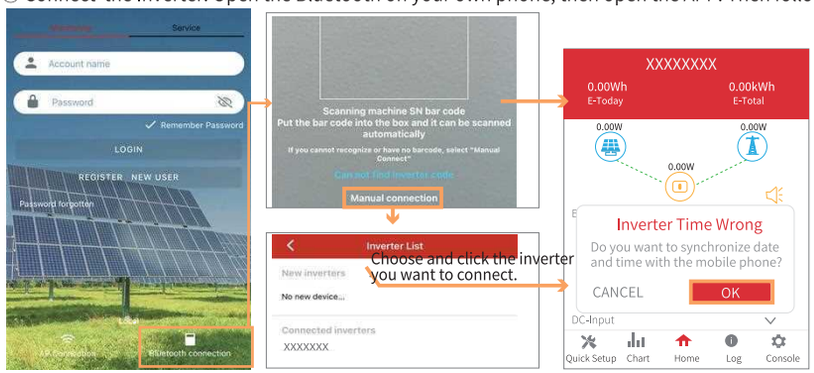
① Download the APP in either of the following ways

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

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

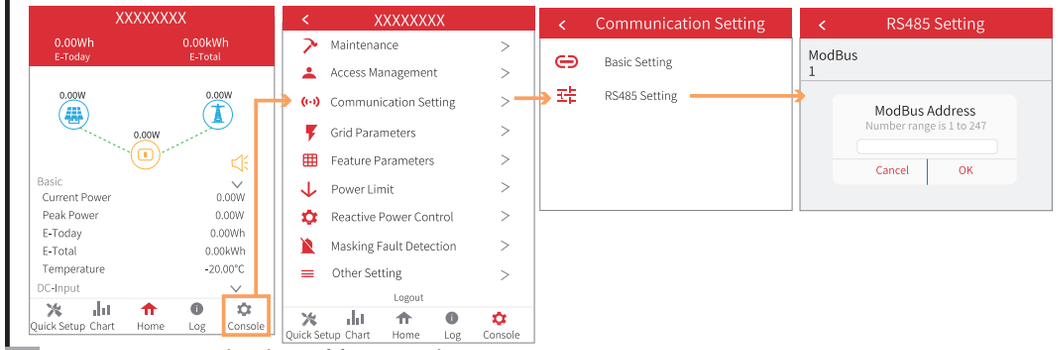
② Power on the inverter.

③ Connect the Inverter. Open the Bluetooth on your own phone, then open the APP. Then follow the instructions below.



5 RS485 communication address setting.

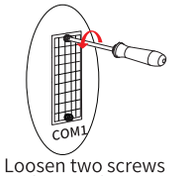
④ Go to **Console > Communication Setting > RS485 Setting > Modbus** Page, check the Modbus address (the default value is 1), and click to modify the address as required if necessary.



5 RS485 communication address setting.

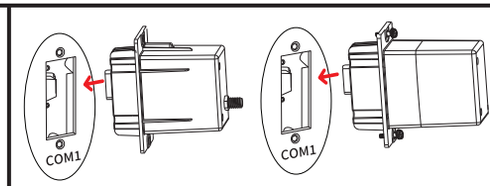
G WIFI/GPRS/LAN MODULE INSTALLATION (OPTIONAL)

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.



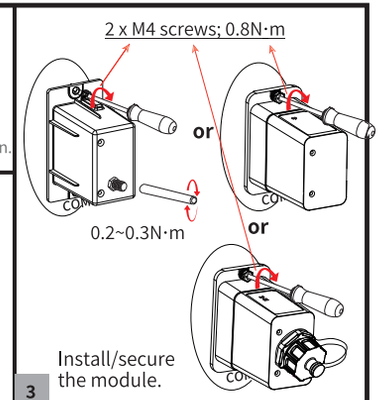
Loosen two screws and move the cover.

1



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

2



Install/secure the module.

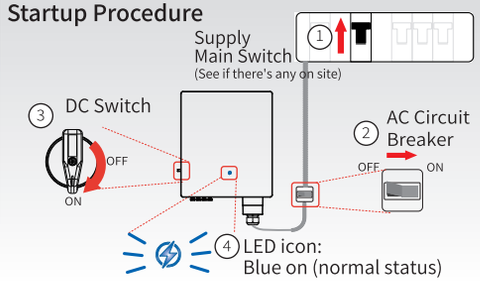
3

H STARTUP / SHUTDOWN PROCEDURE

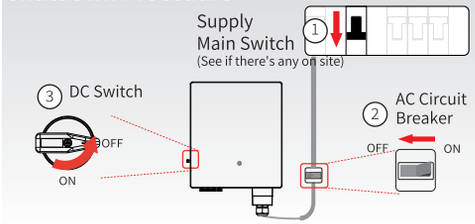
Inspection

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.

Startup Procedure



Shutdown Procedure



⚠ 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.