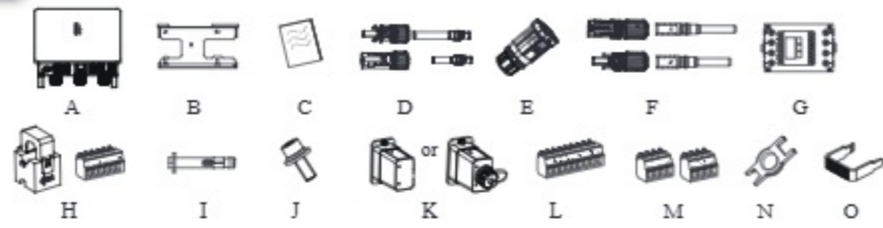


# QUICK INSTALLATION GUIDE

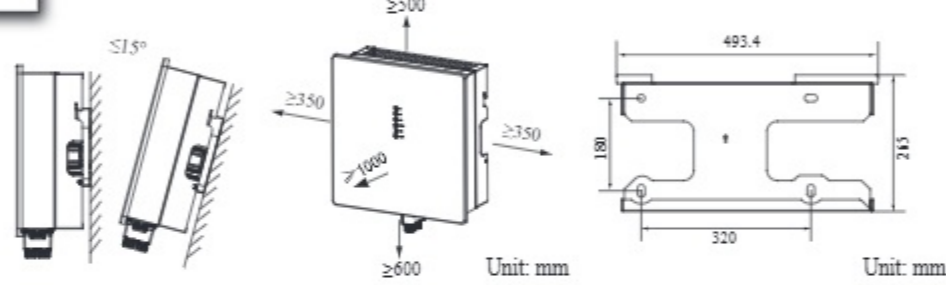
Three-phase ESS Inverter 5K/6K/8K/10K

## 1 PACKING LIST



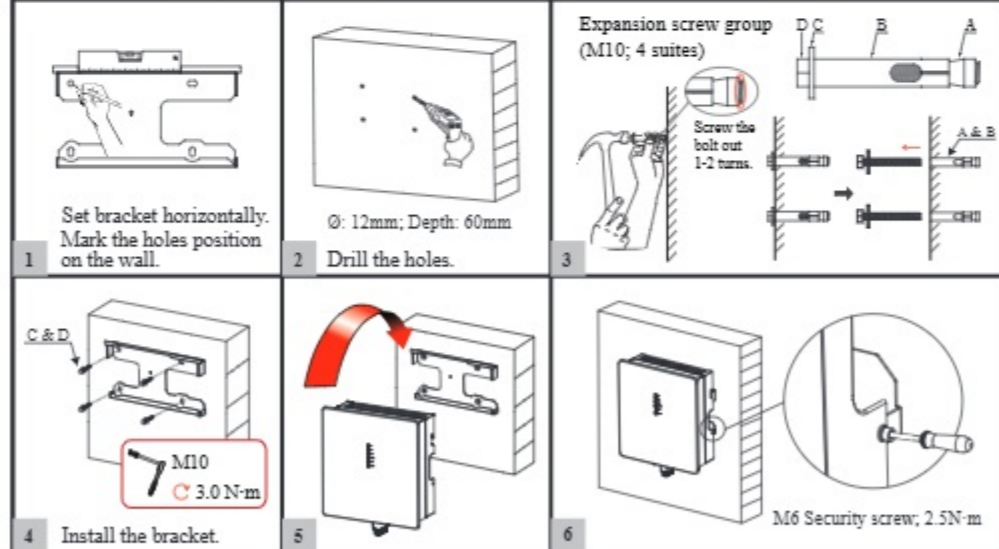
A Inverter	H CT pack (3pcs CT+1pcs 6-Pin terminal)
B Mounting bracket	I M10 Expansion screws
C File package	J M6 Security screw
D PV terminal connector group (PV+/PV-)	K WIFI/LAN module (optional)
E GRID/BACKUP connector	L 9-Pin terminal
F Battery terminal connector group (BAT+/BAT-)	M 4-Pin terminal
G Meter (optional)	N Removal tool for PV/battery connector
	O Removal tool for GRID/BACKUP connector

## 2 LOCATION



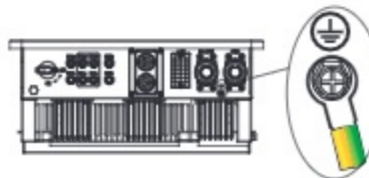
## 3 INSTALLATION

- 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.



## 4 GROUNDING

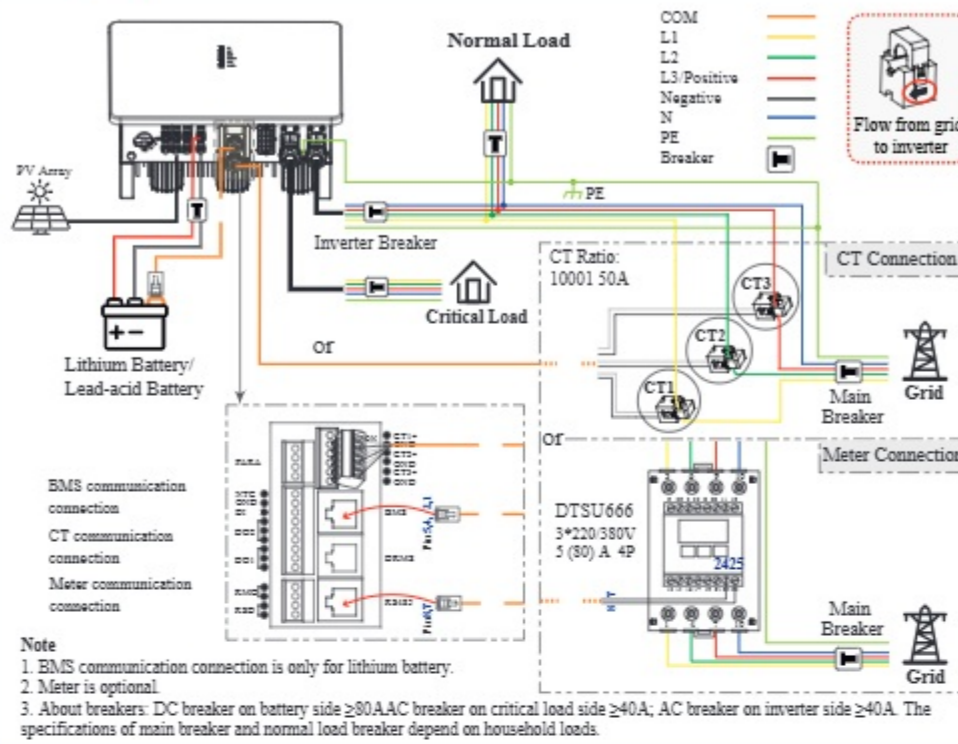
- Ensure that inverter and all cables to be installed are completely powered off during whole installation and connection. Otherwise, fatal injury can occur due to the high voltage.



Items	Remark
Screw	M4 × 12mm; 1.2 N·m
OT Terminal	OT6-4
Yellow green lines	$S_{\text{Yellow green lines}} \geq S_{\text{PE line of AC cable}}$ S is the cross-sectional area.

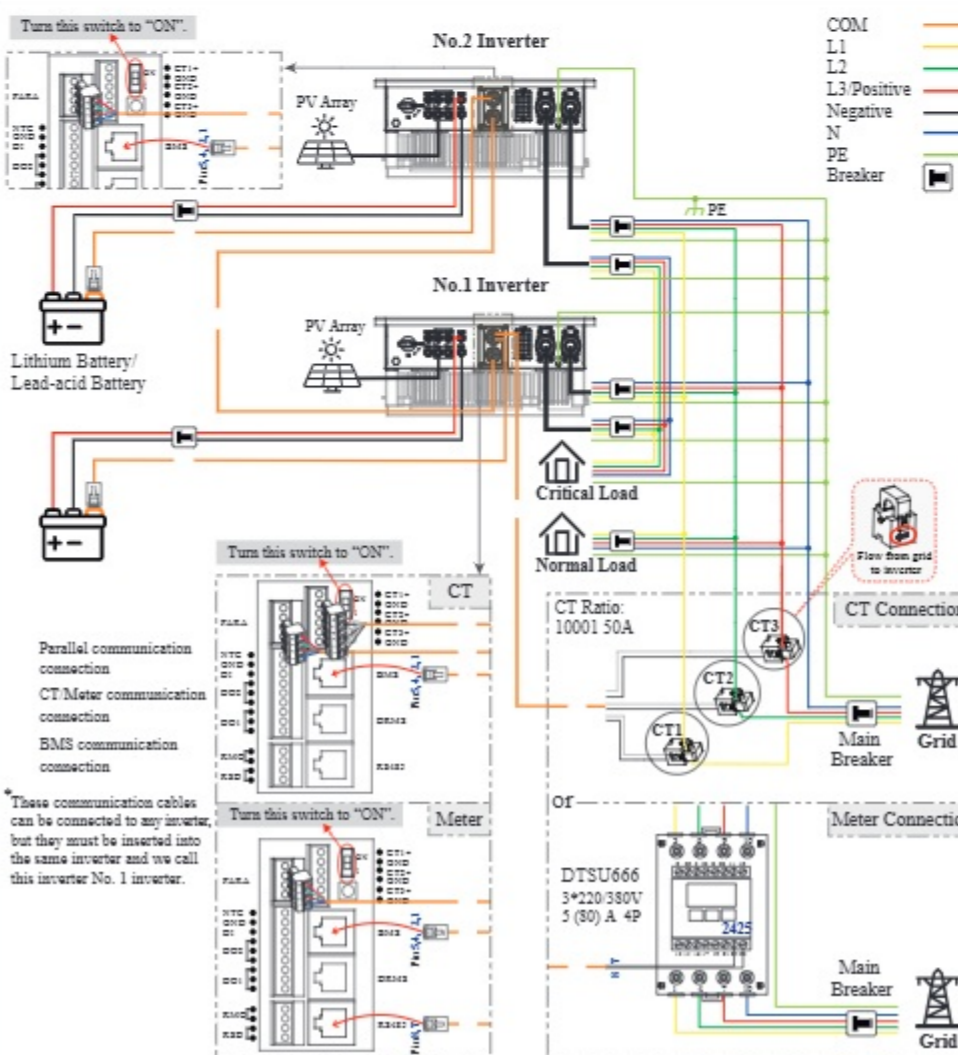
## 5 WIRING SYSTEM Non-parallel connection mode

- Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, high voltage may result in fatal injury.



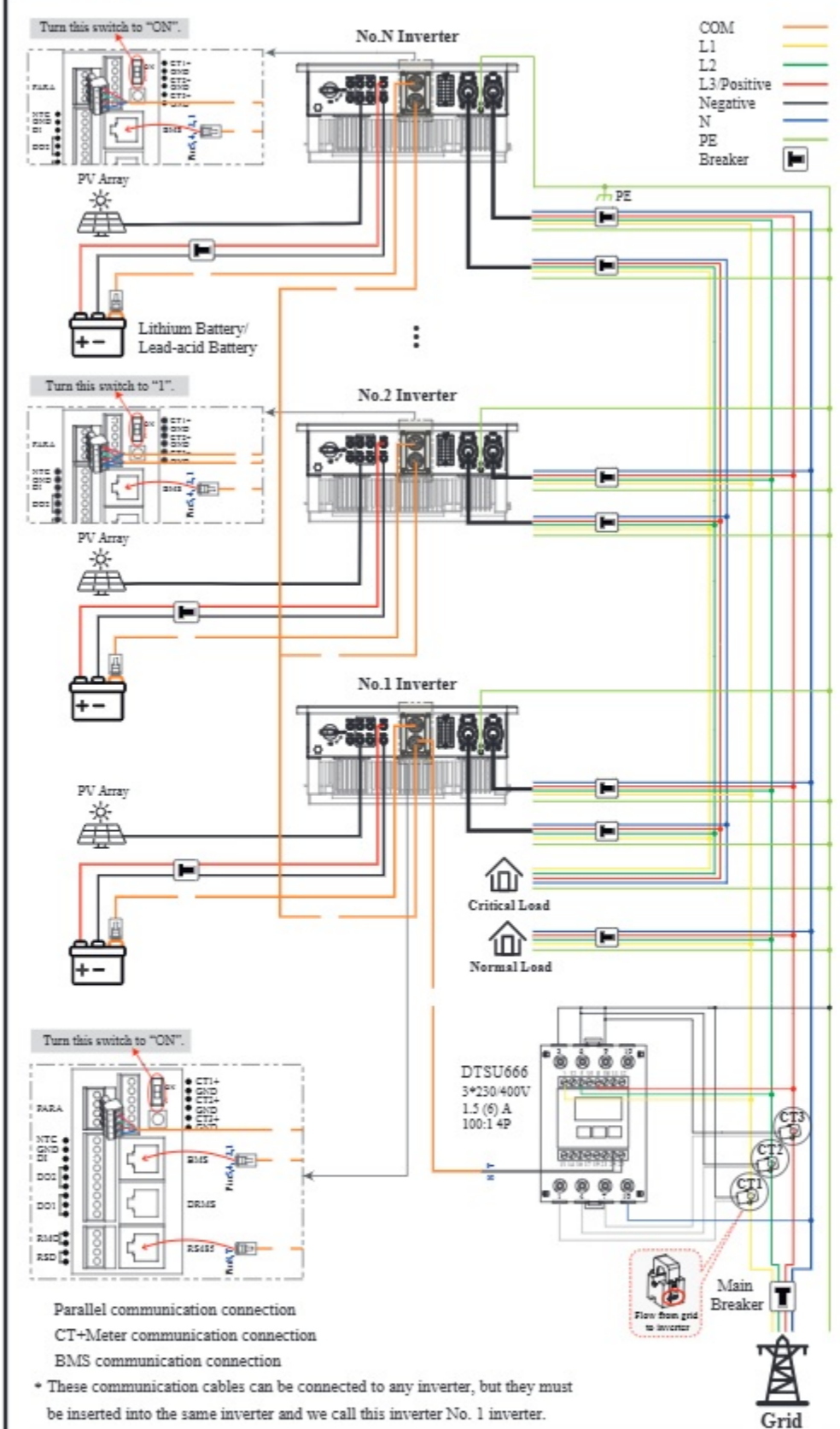
## 6 WIRING SYSTEM Parallel connection mode - Scheme A (N=2)

- Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, high voltage may result in fatal injury.



## 7 WIRING SYSTEM Parallel connection mode - Scheme B (2 ≤ N ≤ 9)

- Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, high voltage may result in fatal injury.



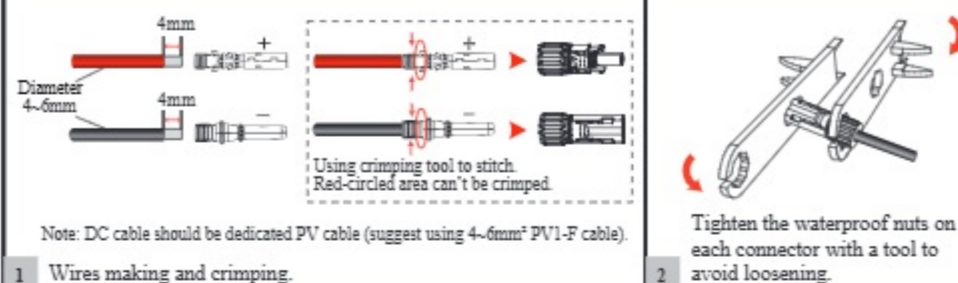
### Note for parallel connection modes — Scheme A and B

- BMS communication connection is only for lithium battery.
- It is necessary to turn the matched resistance switch of No. 1 inverter and No. N inverter to "ON" and turn others to "1" in parallel connection mode. (Only for Scheme B)
- With parallel connection mode, it is necessary to connect APP to one of inverters and then go to [Console > Hybrid Setting > Other > Parallel mode](#) page to enable **Parallel mode** on APP. Setting/modifying the parameter requires logging into an administrator account.
- About breakers: DC breaker on battery side  $\geq 80A$ ; AC breaker on critical load side  $\geq 40A$ ; AC breaker on inverter side  $\geq 40A$ . The specifications of main breaker and normal load breaker depend on household loads.

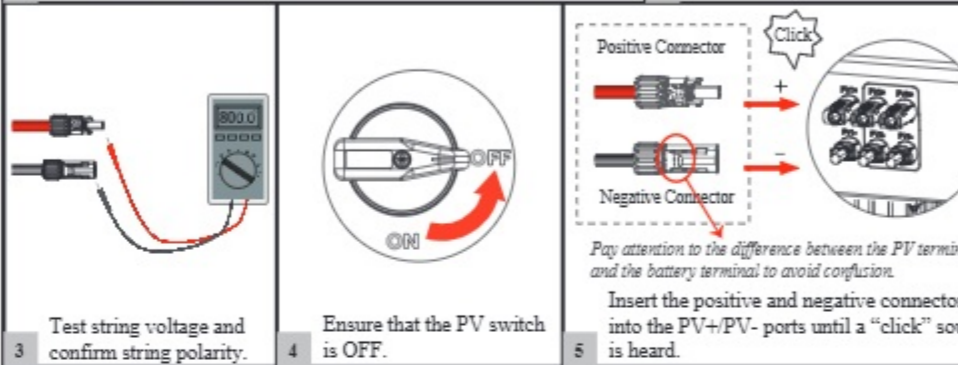


## 8 PV CONNECTION

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



1 Wires making and crimping.



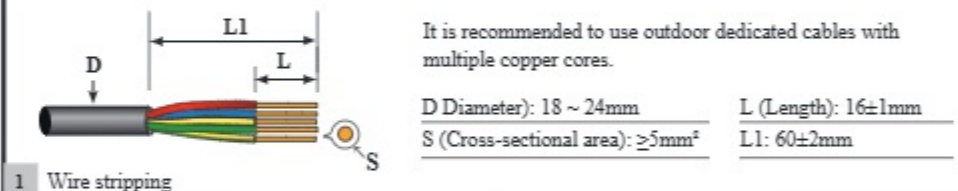
3 Test string voltage and confirm string polarity.

4 Ensure that the PV switch is OFF.

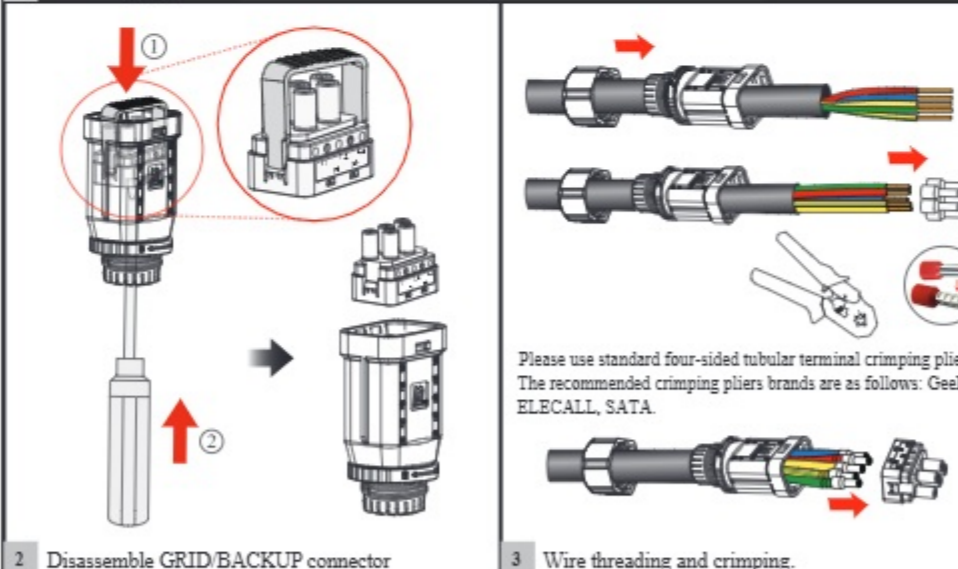
5 Insert the positive and negative connectors into the PV+/PV- ports until a "click" sound is heard.

## 9 GRID/BACKUP CONNECTION

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

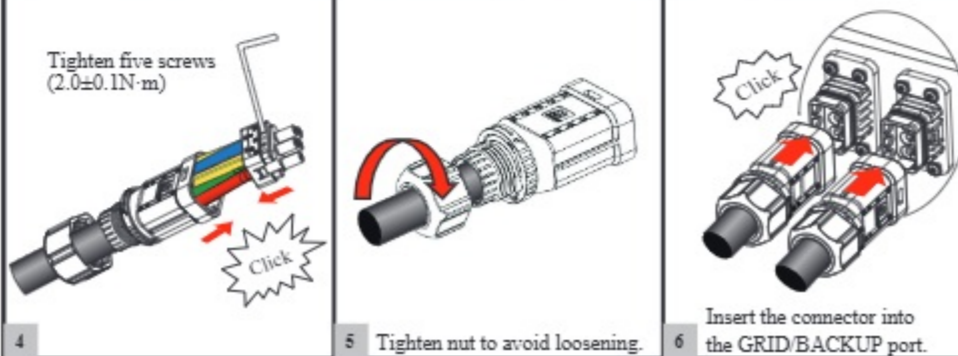


1 Wire stripping



2 Disassemble GRID/BACKUP connector

3 Wire threading and crimping.



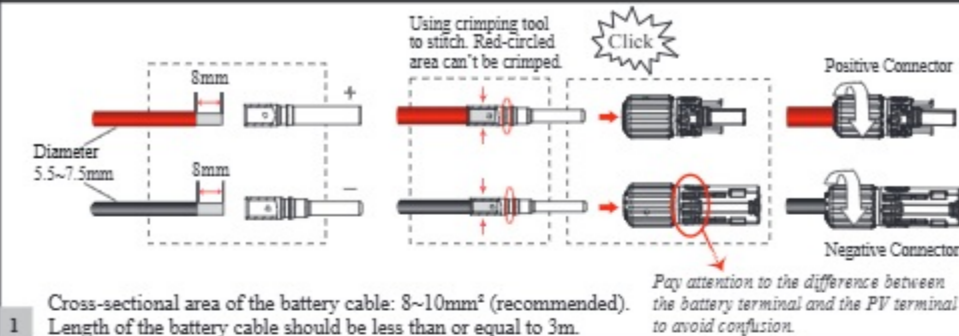
4 Tighten five screws (2.0±0.1N·m)

5 Tighten nut to avoid loosening.

6 Insert the connector into the GRID/BACKUP port.

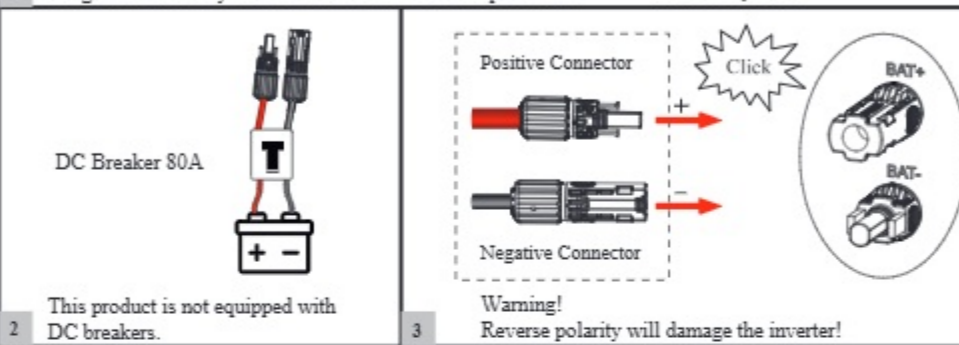
## 10 BATTERY CONNECTION

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



1 Cross-sectional area of the battery cable: 8~10mm² (recommended). Length of the battery cable should be less than or equal to 3m.

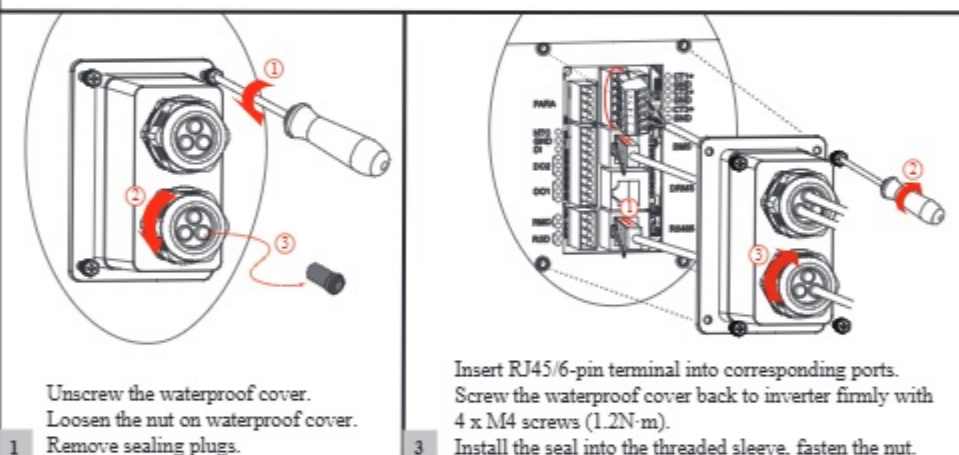
Pay attention to the difference between the battery terminal and the PV terminal to avoid confusion.



2 This product is not equipped with DC breakers.

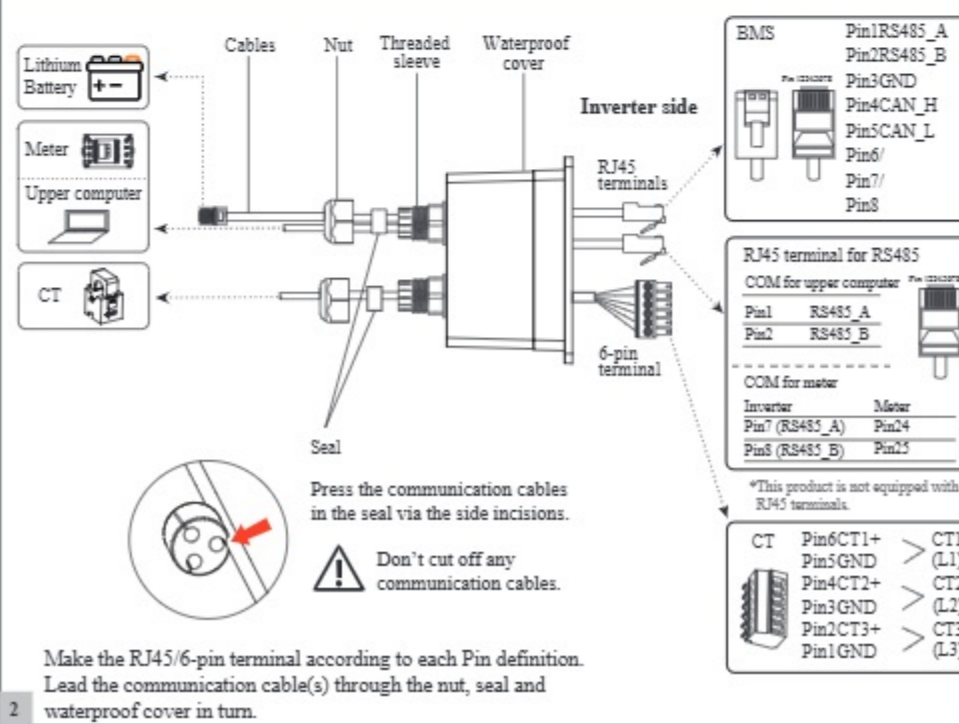
Warning! Reverse polarity will damage the inverter!

## 11 COMMUNICATION CABLE(S) CONNECTION (BMS/CT/RS485)



1 Unscrew the waterproof cover. Loosen the nut on waterproof cover. Remove sealing plugs.

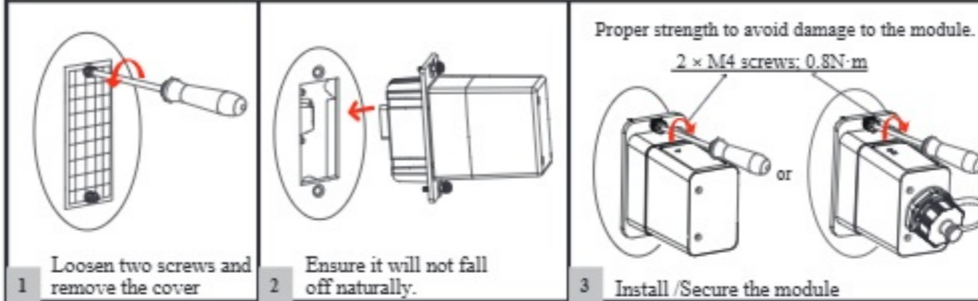
3 Insert RJ45/6-pin terminal into corresponding ports. Screw the waterproof cover back to inverter firmly with 4 x M4 screws (1.2N·m). Install the seal into the threaded sleeve, fasten the nut.



2 Make the RJ45/6-pin terminal according to each Pin definition. Lead the communication cable(s) through the nut, seal and waterproof cover in turn.

## 12 WIFI/LAN MODULE INSTALLATION(OPTIONAL)

For details, please refer to the corresponding Module Installation Guide in the pack. The appearance of the actual modules may be slightly different. The figures shown here are only for reference.



1 Loosen two screws and remove the cover

2 Ensure it will not fall off naturally.

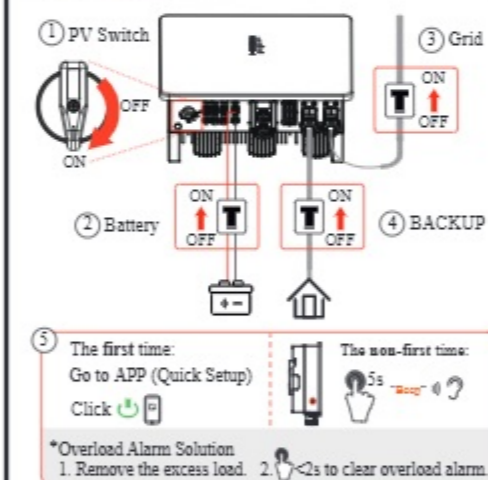
3 Install /Secure the module

## 13 STARTUP/SHUTDOWN PROCEDURE

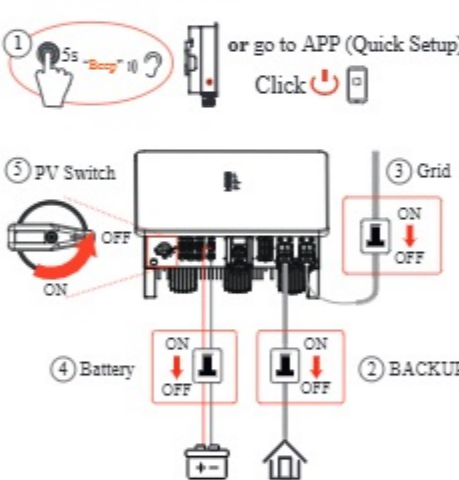
### Inspection

- | 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 ensure there is no short circuit, break, or wrong connection.                      |
| 6   | Check whether the waterproof nuts of each part are tightened.   |
| 7   | The vacant ports have been sealed. All gaps at the cable inlet and outlet holes have been plugged with fireproof/waterproof materials, such as fireproof mud. |
| 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 electric shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.

## 14 DISPLAY

LED	Status	Description	LED	Status	Description
PV	On	PV input is normal.	BACKUP	On	BACKUP power is available.
	Blink	PV input is abnormal.		Blink	BACKUP output is abnormal.
BAT	Off	PV is unavailable.	COM	Off	BACKUP power is unavailable.
	On	Battery is charging.		Blink	Data are communicating.
GRID	Blink	Battery is discharging.	ALARM	Off	No data transmission
	Off	Battery is abnormal.		On	Fault has occurred and inverter shuts down.
COM	On	Battery is unavailable.	ALARM	Blink	Alarms have occurred but inverter doesn't shut down.
	On	GRID is available and normal.		Off	No fault.
ALARM	Blink	GRID is abnormal.			
	Off	GRID is unavailable.			

As the technology is constantly updated and improved, the illustrations in this document are for reference only. Contents including illustrations in this document are subject to change without notice.