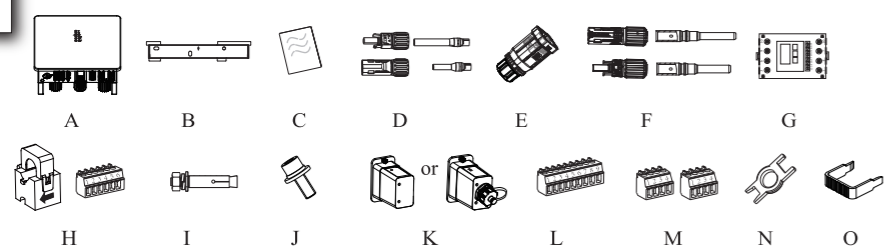


# QUICK INSTALLATION GUIDE

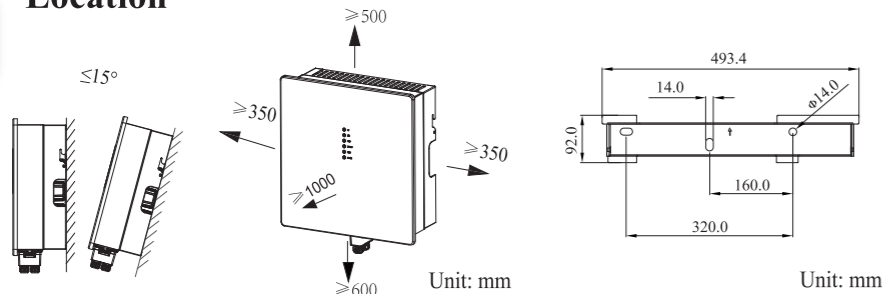
## Three-phase ESS Inverter 5K/6K/8K/10K

### 1 Packing List



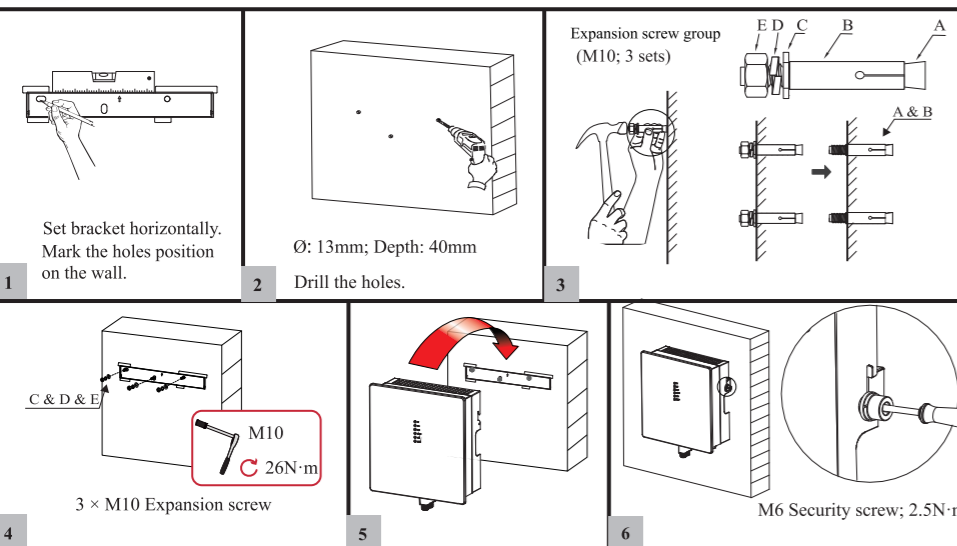
A Inverter	H CT pack (3pcs CT+1pcs 6-Pin terminal)
B Mounting bracket	I M10 Expansion screws
C File package	J M6 Security screw
D PV terminal connector group (PV+/PV-);	K WIFI/LAN module (optional)
E GRID/BACKUP connector	L 9-Pin terminal
F Battery terminal connector group (BAT+/BAT-)	M 4-Pin terminal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



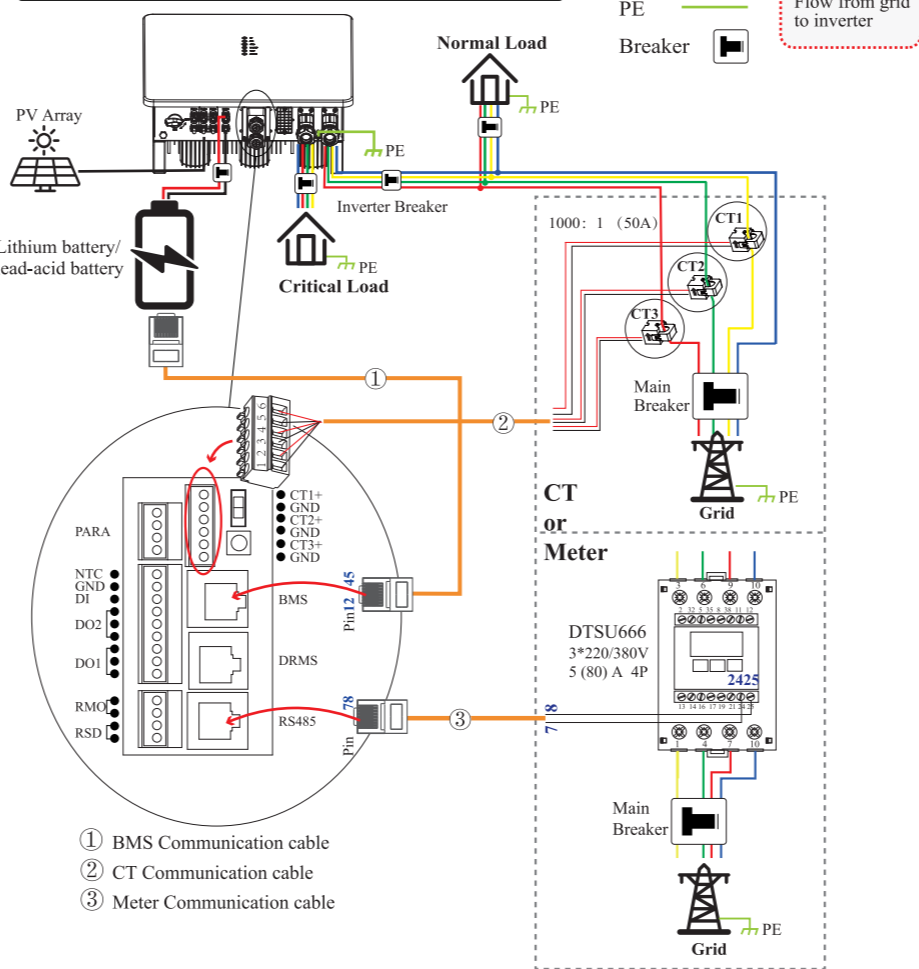
### 4 Grounding

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 (Yellow green lines) ≥ S (PE line of AC cable) S is the cross-sectional area.

### 5 Wiring System

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

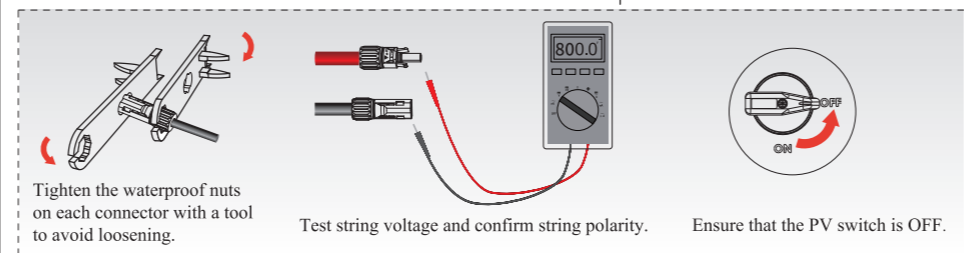
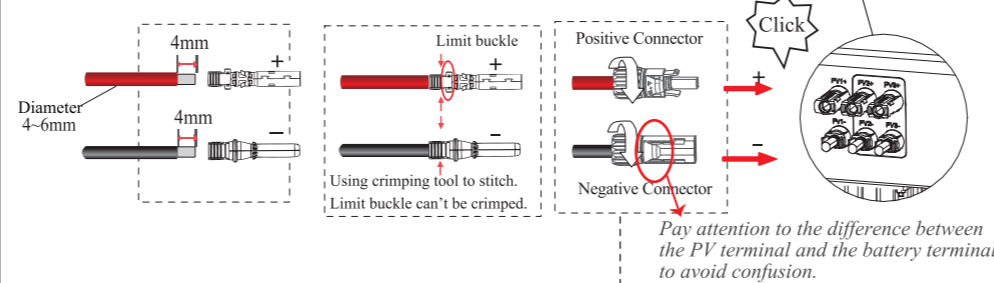


- BMS Communication cable
- CT Communication cable
- Meter Communication cable

**Note**  
 1. BMS communication connection is only for lithium battery.  
 2. Meter is optional.  
 3. About breakers: DC breaker on BATTERY side ≥80A; AC breaker on critical load side ≥40A; AC breaker on Inverter side ≥40A

### 6 PV Connection

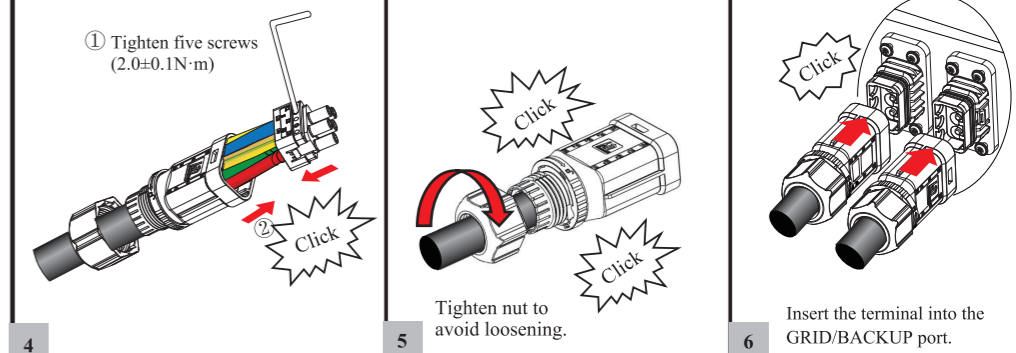
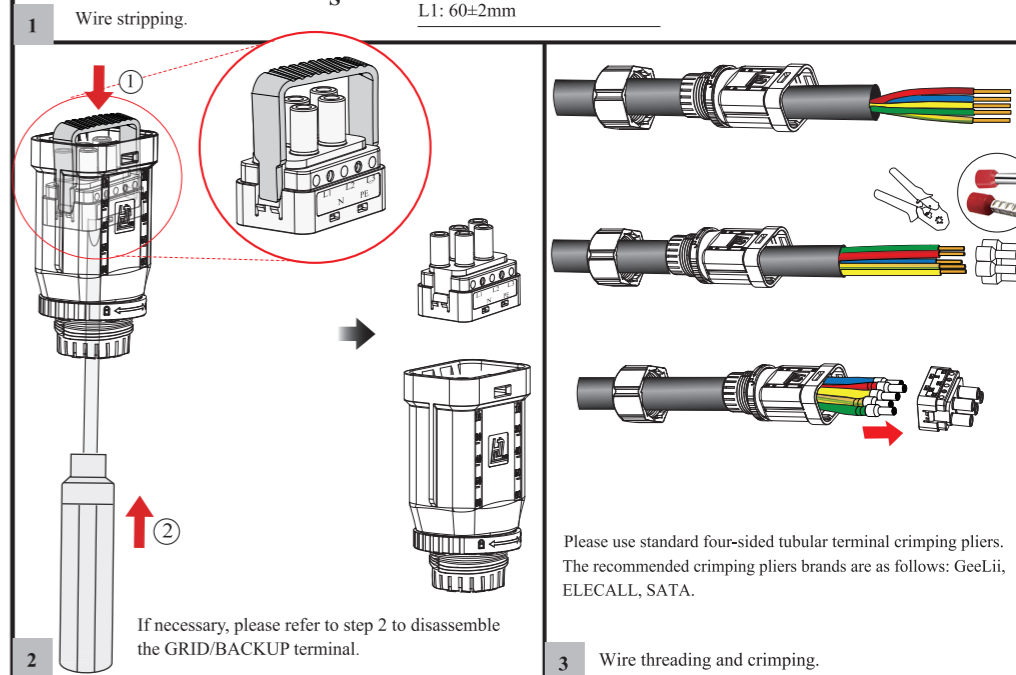
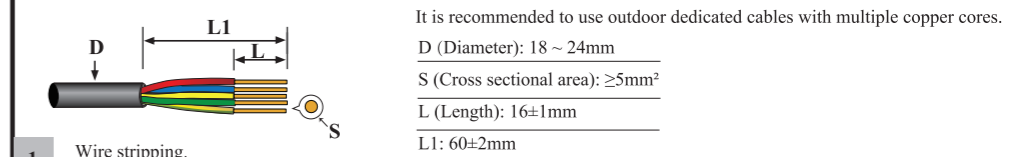
- Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
- Before connecting the PV terminal, ensure that both the AC terminal and the DC terminal are powered OFF and the PV switch is OFF. Otherwise there is a risk of high voltage shock.



Note: DC cable should be dedicated PV cable (suggest using 4-6mm<sup>2</sup> PV1-F cable).

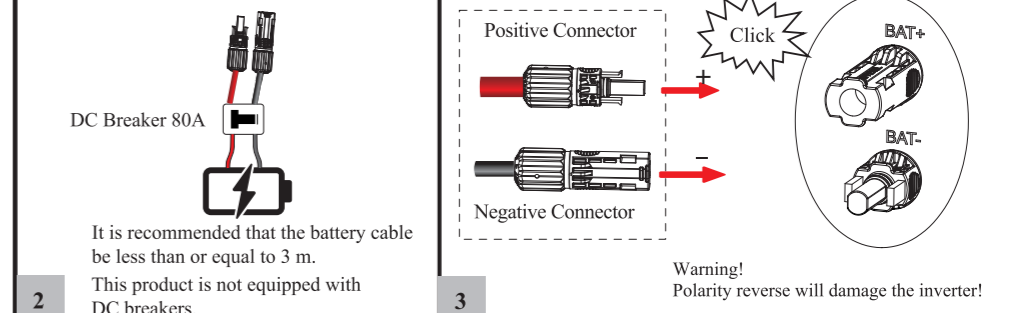
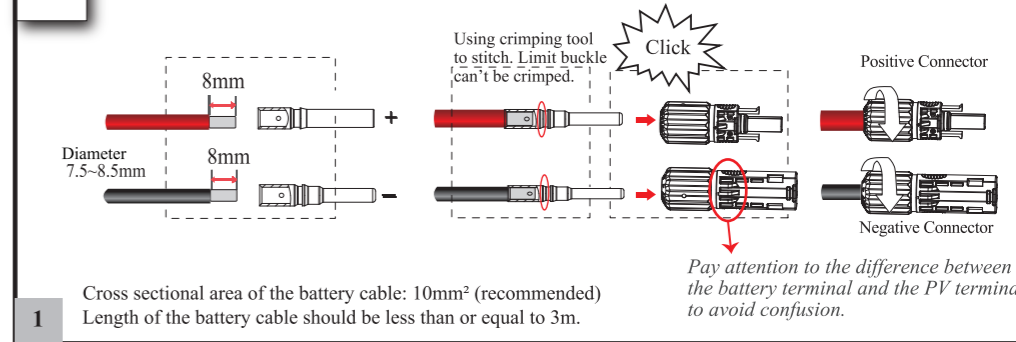
### 7 GRID/BACKUP Connection

Before connecting the GRID/BACKUP 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.



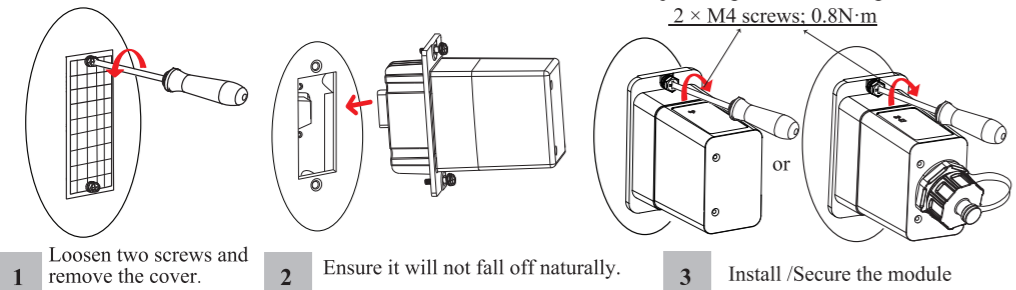
### 8 Battery Connection

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.

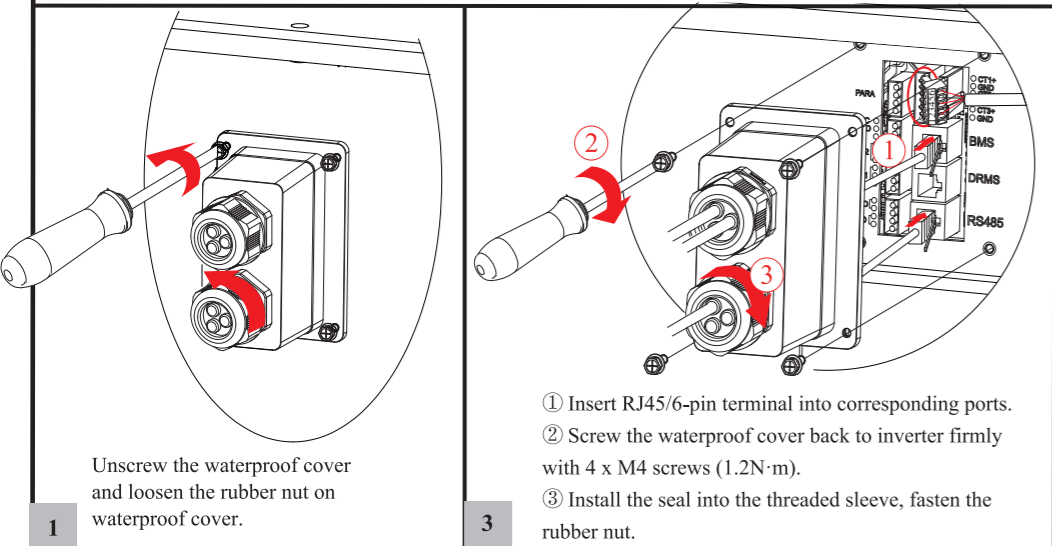


## 9 WIFI/LAN Module Installation (Optional)

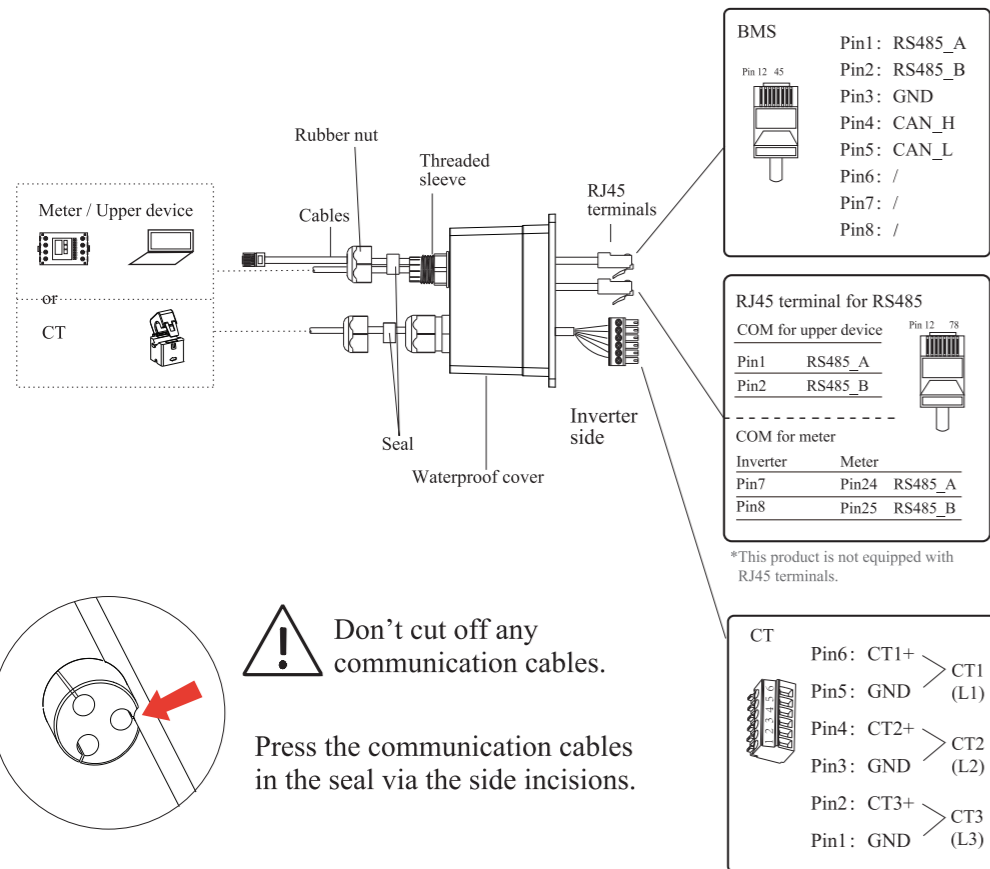
For details, please refer to the corresponding Module Installation Guide in the pack. The appearance of the actual modules may be slightly different. The figures shown here are only for reference.



## 10 Communication Cable(s) Connection (BMS/CT/RS485)



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



Don't cut off any communication cables.

Press the communication cables in the seal via the side incisions.

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

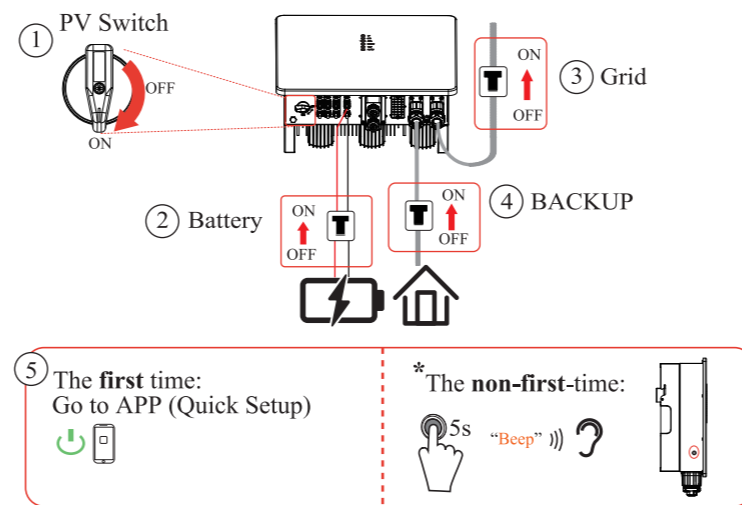
## 11 Startup/shutdown Procedure

### Inspection

#### No. Items

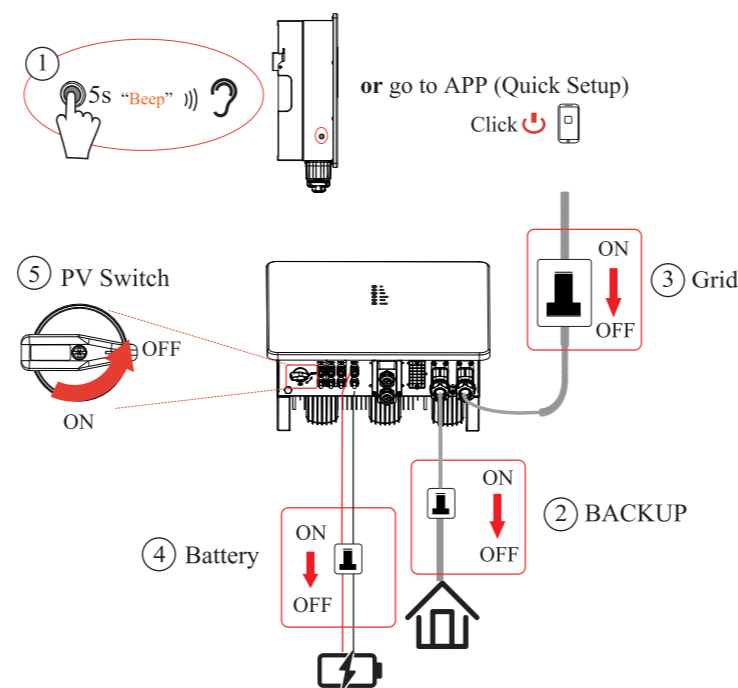
- 1 The inverter is firmly installed.
- 2 There is enough heat dissipation space, no external objects or parts left on the inverter.
- 3 It is convenient for operation and maintenance.
- 4 The wiring of the system is correct and firm.
- 5 Check whether the DC and AC connections are correct with a multimeter, 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 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



\* To act the non-first-time startup, press and hold down the button on the left side of the inverter for about 5 seconds, until you hear the "beep" sound.

### 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.

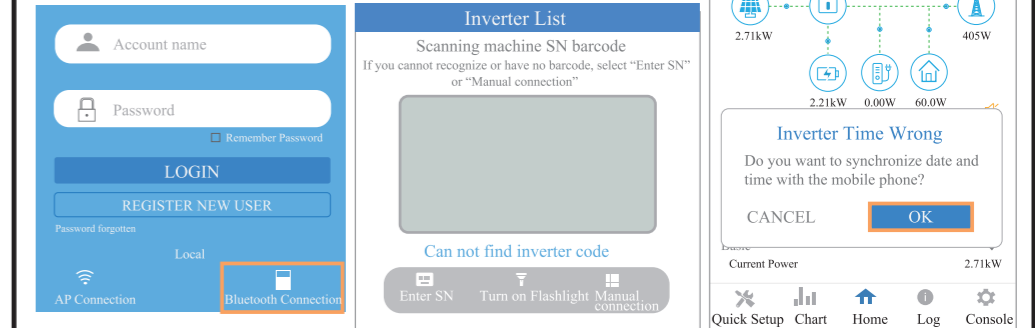
## 12 Quick Setup

### A Preparation

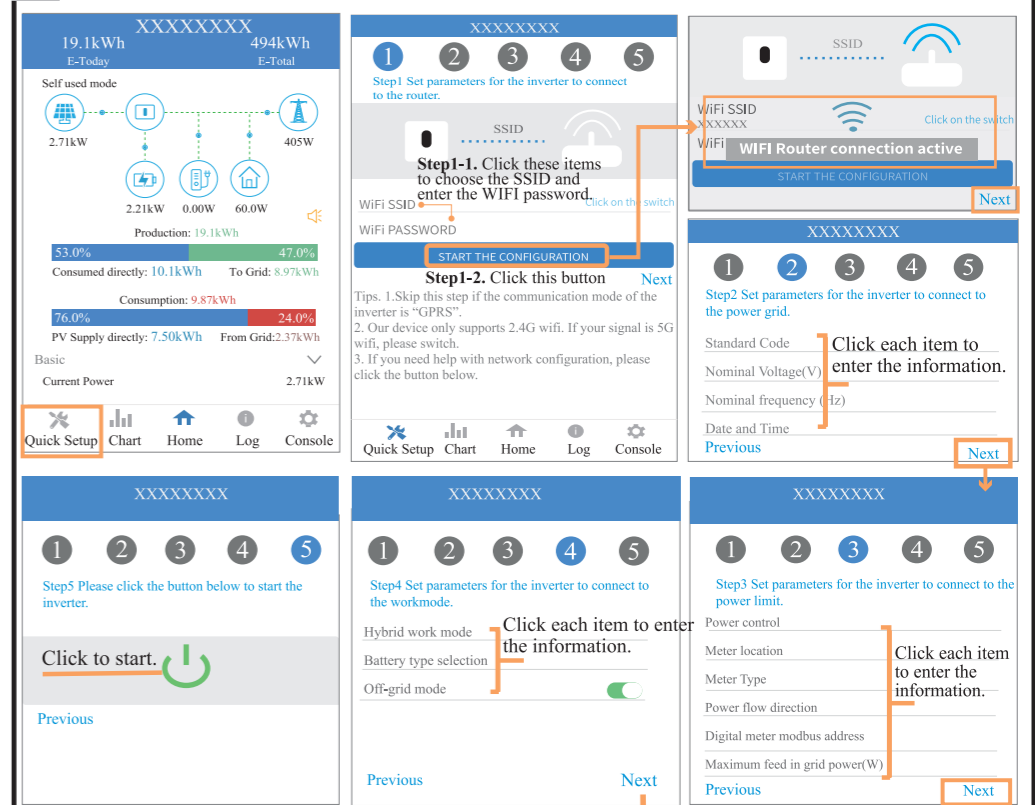
1. Download the APP.
  - Scan the QR code on the inverter to download the APP.
  - Download the APP from the App Store or Google Play.
 Note: the APP should access some permissions such as the device's location. You need to grant all access rights in all pop-up windows when installing the APP or setting your phone.
2. Power on the inverter.

### B Connecting the Inverter

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



### C Quick Setup



## 13 Display

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