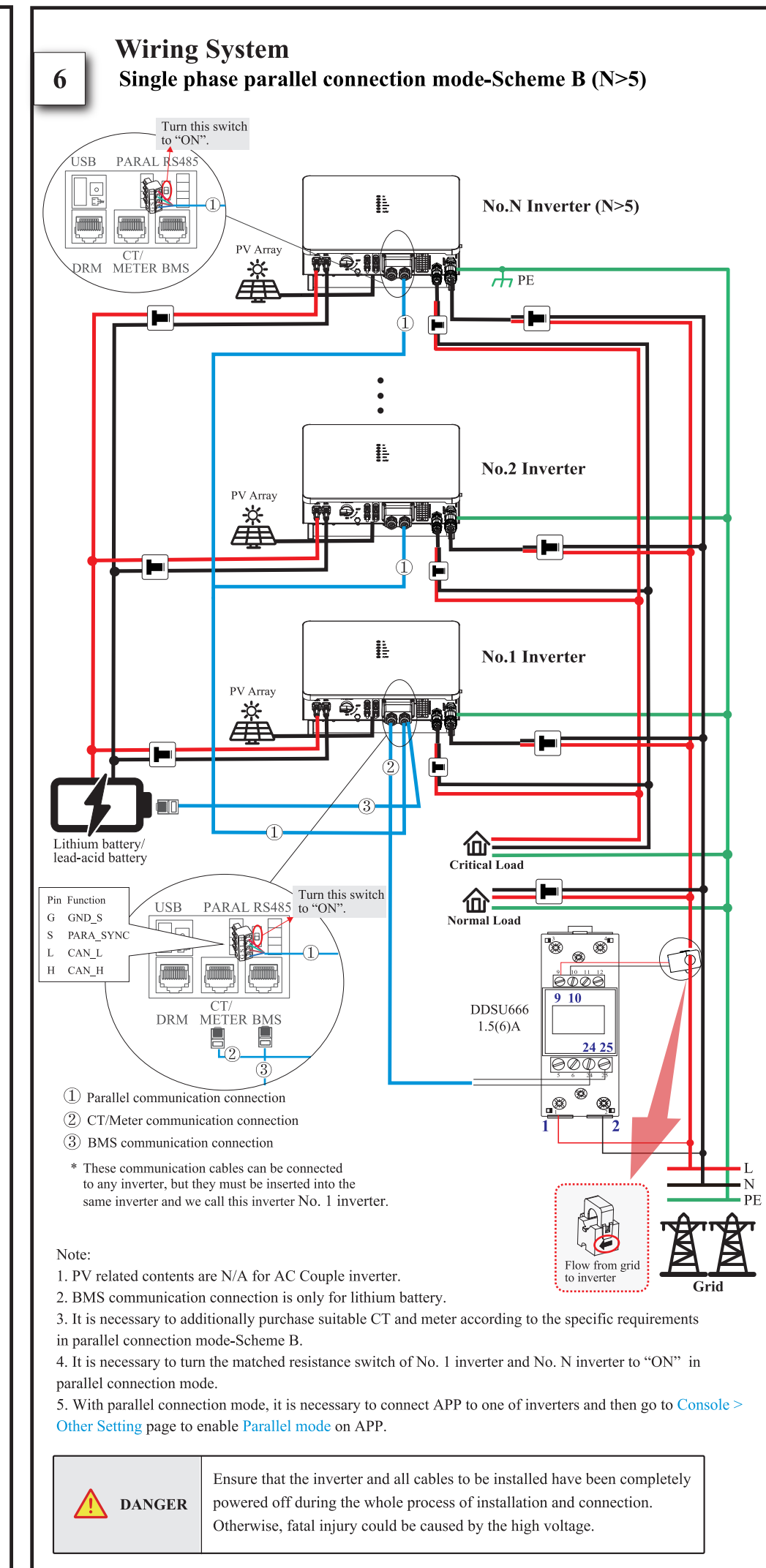
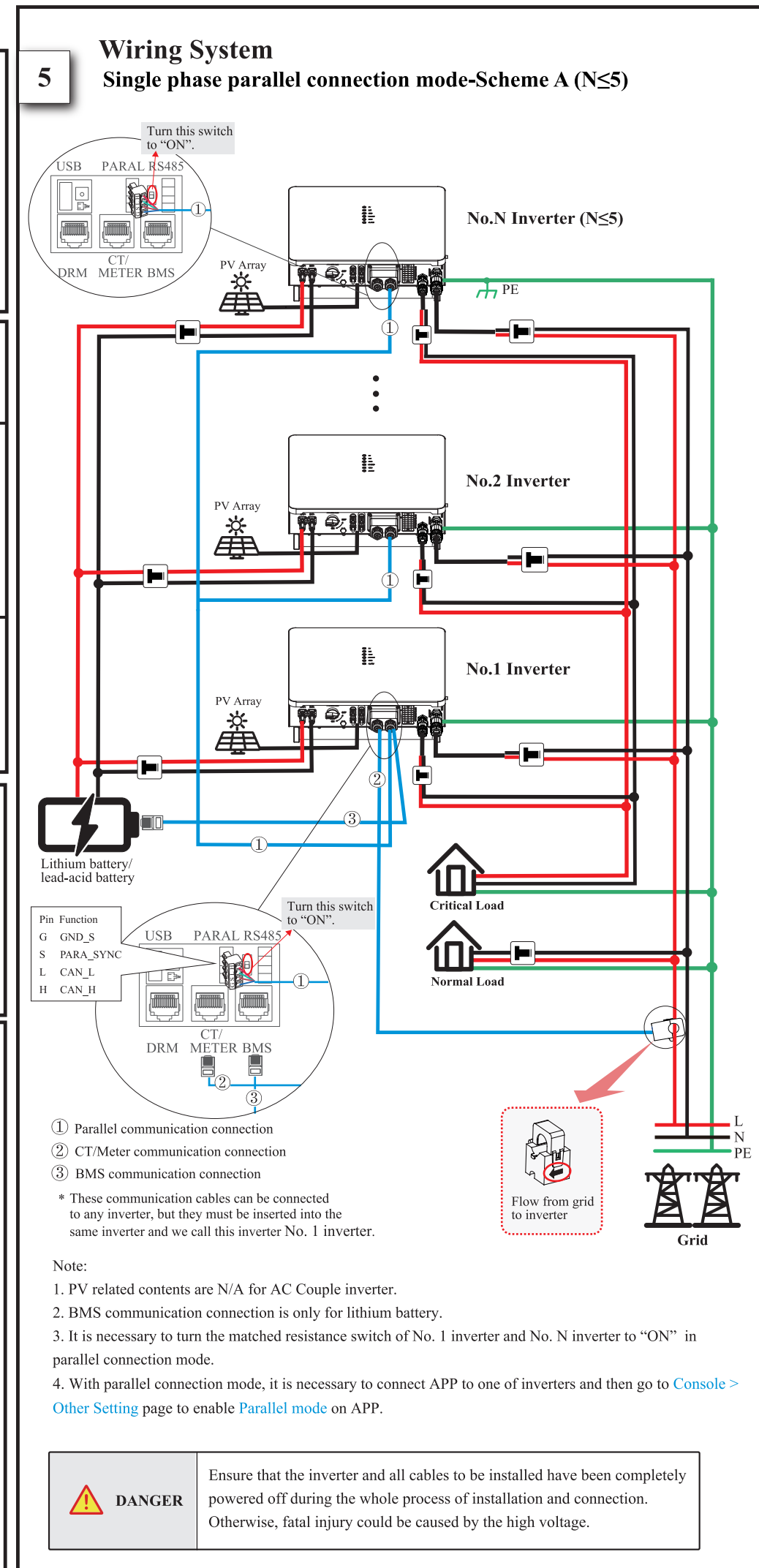
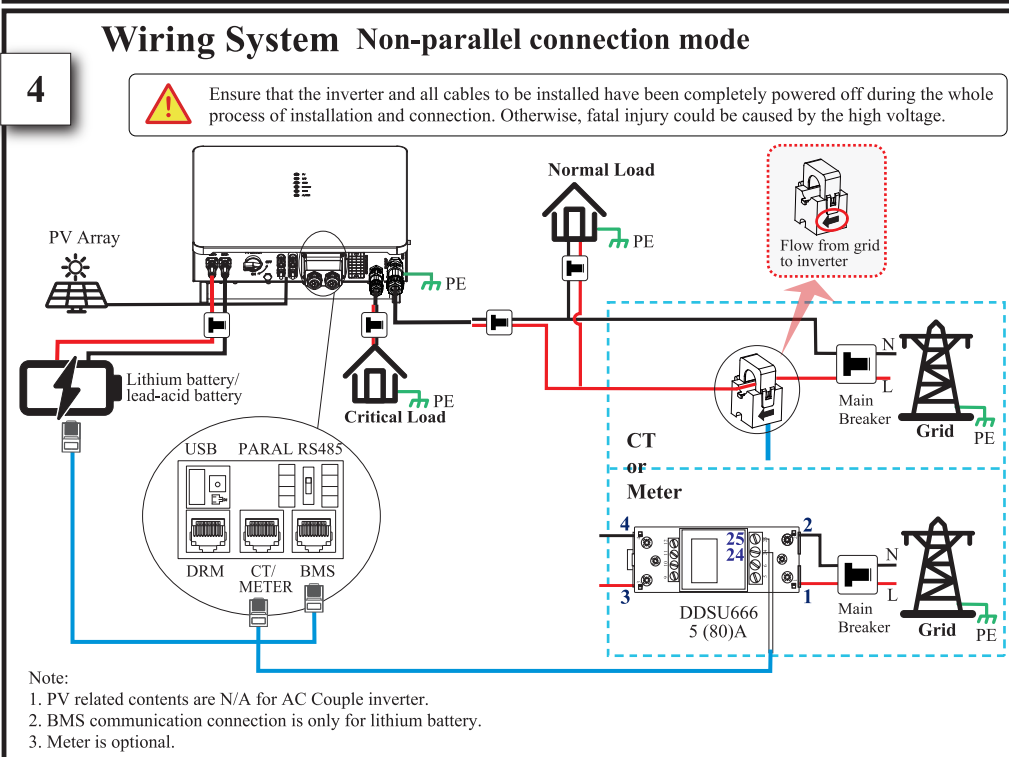
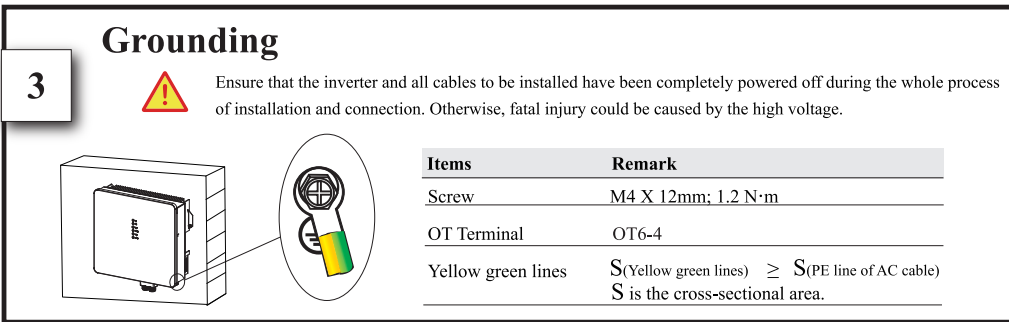
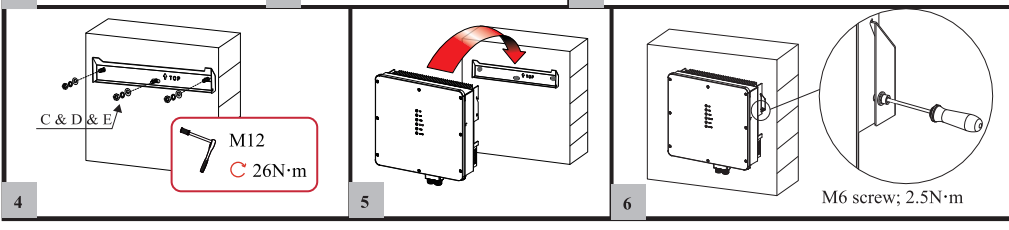
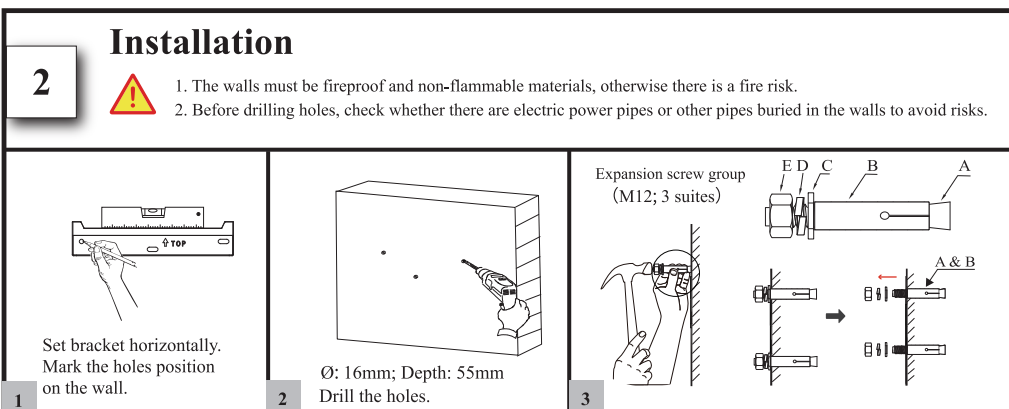
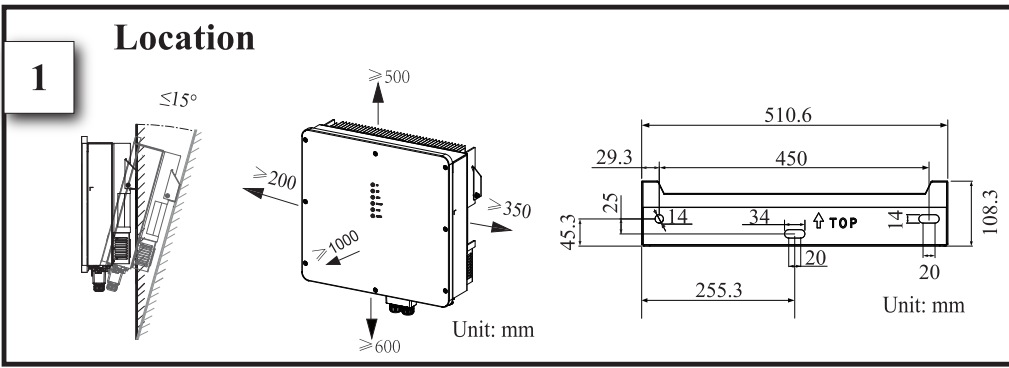


# QUICK INSTALLATION GUIDE

## Single-phase ESS Inverter 3.6K/3.68K/4.6K/5K/6K



### 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.

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

A. Diameter 14 ~ 20/10~14mm  
B. Cross Section 8~14/4~6mm<sup>2</sup>  
C. Strip Length ~10mm

1 Tighten three screws and ensure each screw cap does not exceed the surface.  
2 Tighten nut to avoid loosening.  
3 Click

### 8 PV Connection (N/A for AC Couple Inverter)

**⚠️** 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 Strip 4mm  
2 Using crimping tool to stitch. Limit buckle can't be crimped.  
3 Positive Connector Negative Connector

Tighten the waterproof nuts on each connector with a wrench to avoid loosening.  
Test string voltage and confirm string polarity.  
Ensure that the PV switch is OFF.

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

### 9 Battery Connection

A. Diameter 10~12mm  
B. Cross Section 25mm<sup>2</sup>  
C. Strip Length ~10mm

1 Hydraulic Pressure Crimper

### 4 DC Breaker 150A

It is recommended that the battery cable be less than or equal to 3 m.  
This product is not equipped with DC breakers.

Warning! Polarity reverse will damage the inverter!

### 10 GPRS/WIFI/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.

1 Loosen two screws and move the cover.  
2 Insert GPRS/WiFi/LAN module into the port, and ensure that it does not fall off.  
3 Install/secure the module.

Proper strength to avoid damage to the module.  
2 x M4 screws; 0.8N·m  
0.2~0.3N·m

### 11 Communication Cable(s) Connection (CT/Meter and BMS)

1 Unscrew the waterproof cover and loosen the rubber nut on waterproof cover.  
2 Insert RJ45 terminals into corresponding ports.  
3 Screw the waterproof cover back to inverter firmly with 4 x M4 screws (1.2N·m).  
4 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.

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

BMS	Pin1: RS485_A	Pin2: RS485_B	Pin3: GND_S	Pin4: GND_S	Pin5: GND_S	Pin6: GND_S	Pin7: CAN_L	Pin8: CAN_H
Meter	Pin1 or Pin3 (RS485_A)	Pin24	Pin2 or Pin4 (RS485_B)	Pin25	Pin3 (Test+)	Green-white	Pin5 (CT-)	Blue-white
or CT	Pin6 (CT+)	Green	Pin7 (Test-)	Brown-white				

### 12 Startup/Shutdown Procedure

**Inspection**

- The inverter is firmly installed.
- There is enough heat dissipation space, no external objects or parts left on the inverter.
- It is convenient for operation and maintenance.
- The wiring of the system is correct and firm.
- Check whether the DC and AC connections are correct with a multimeter, and whether there is a short circuit, break, or wrong connection.
- Check whether the waterproof nuts of each part are tightened.
- 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.
- 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 electric 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**

- PV Switch OFF
- Battery Circuit Breaker OFF
- AC Circuit Breaker OFF
- BACKUP Circuit Breaker OFF
- Go to APP (Quick Setup)

**Shutdown Procedure**

- Go to APP (Quick Setup)
- BACKUP Circuit Breaker OFF
- AC Circuit Breaker OFF
- Battery Circuit Breaker OFF
- PV Switch OFF

### 13 Quick Setup

#### A Preparation

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

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.

#### B Connecting the Inverter

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

#### C Quick Setup

### 14 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	On	Battery is charging.	BACKUP	On	BACKUP power is available.
	Off	PV is unavailable.		Blink	BACKUP output is abnormal.
GRID	On	GRID is available and normal.		Off	BACKUP power is unavailable.
	Blink	GRID is available and abnormal.	ALARM	On	Fault has occurred and inverter shuts down.
BACKUP	Off	Battery is unavailable.		Blink	Alarms have occurred but inverter doesn't shut down.
COM	On	GRID is available and normal.		Off	No fault.
	Blink	GRID is available and abnormal.			
ALARM	Off	GRID is unavailable.			