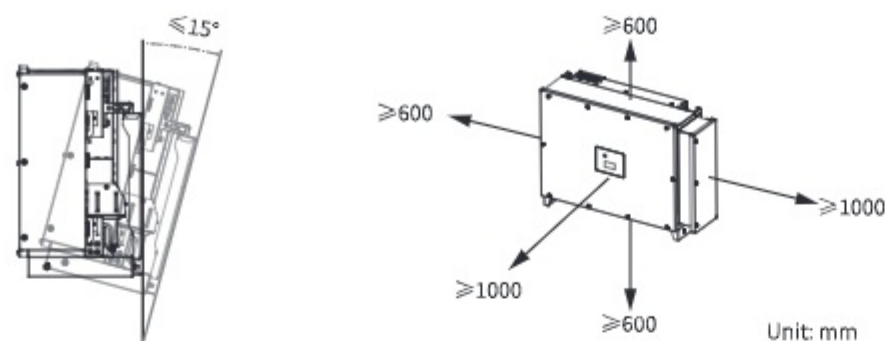
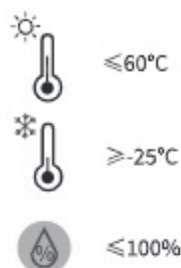


# QUICK INSTALLATION GUIDE

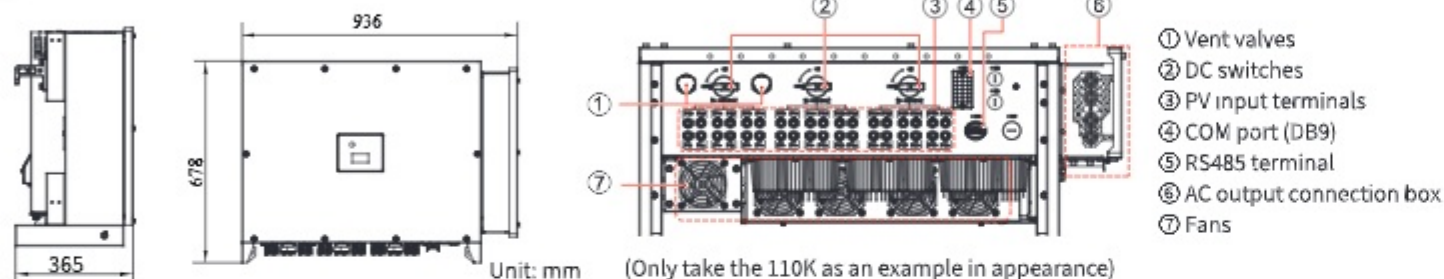
## Three-phase Grid-tied PV String Inverter

75K/100K/110K/125K/125K-H

### 1 LOCATION



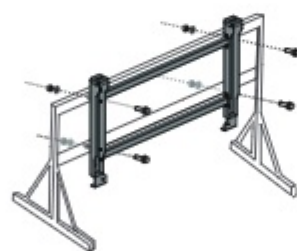
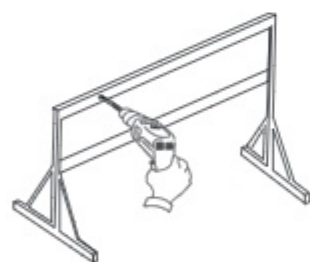
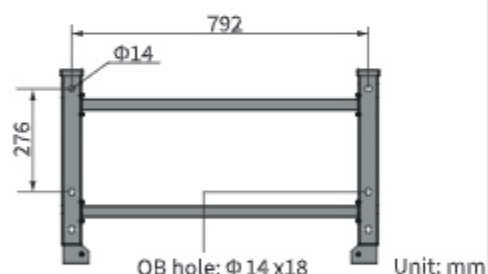
### 2 APPEARANCE



### 3 INSTALLATION

- 1. The walls must be fireproof and non-flammable materials, otherwise there is a fire risk.
- 2. Before drilling holes, ensure that there is no electric power or other pipe buried in the walls to avoid risks.

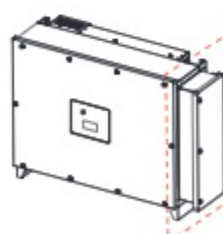
The inverter supports wall-mounted installation and bracket-mounted installation. The following steps illustrate bracket-mounted installation only. For wall-mounted installation, the load-bearing capacity of the wall must be greater than 10 KN/m<sup>2</sup> and M12 x 60mm stainless steel pressure-burst expansion bolts are recommended.



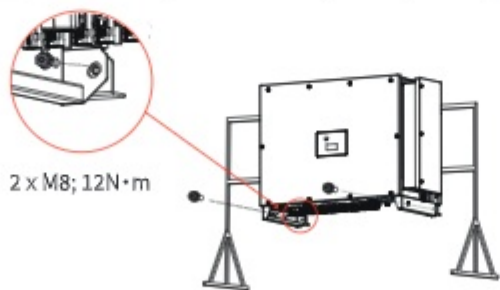
1 Mark the holes position on the bracket.

2 Drill the holes. (4 x  $\Phi 14$ mm).

3 Secure the mounting bracket with bolts from delivery accessories. (4 x M12; 42N·m)



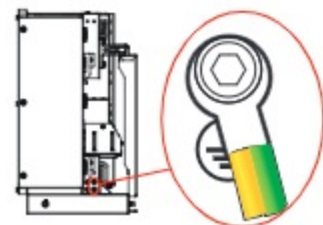
Note: DO NOT press the AC output connection box when installing the inverter.



4 Lift the inverter from the bottom and place it on the mounting bracket.

5 Fix the inverter.

### 4 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, high voltage may result in fatal injury.

Items	Remark
Screw	M8; 7N·m
Green-yellow wire	$S_p \geq S/2$

#### NOTE

S: cross-sectional area of AC cable  
 $S_p$ : cross-sectional area of PE cable  
The  $S_p$  value is valid only when the PE cable and the AC cable are of the same material.

### 5 AC CONNECTION



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

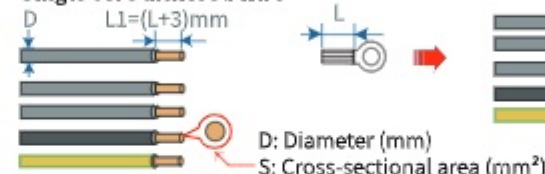
Connect the inverter to the power grid by installing an AC circuit breaker whose rated current is no less than 250A. Residual current protection function of square matrices is internally installed. If local utility department requires leakage current protection function for AC circuit breaker, please set leakage current protection value no less than the corresponding value specified in the table below. This setting can prevent the inverter from performance failure.

Inverter model	Residual current value
100K	$\geq 1110$ mA
75K/110K	$\geq 1230$ mA
125K/125K-H	$\geq 1390$ mA

#### Multi-core armored wire



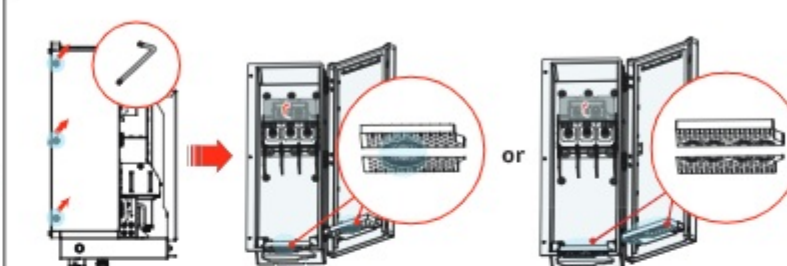
#### Single core armored wire



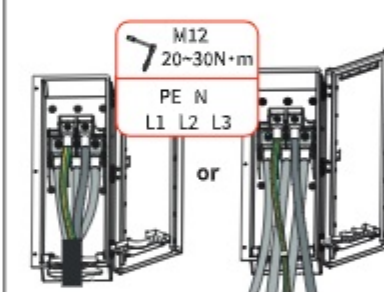
#### AC Cable Requirements:

Cable	Type	S (mm <sup>2</sup> )	D(mm)
AC cable (Multi-Core)	Outdoor triple-core cable (L1, L2, L3)	• Copper wire cable -S: 70mm <sup>2</sup> ~240mm <sup>2</sup> -Sp $\geq$ S/2	24mm~69mm
	Outdoor four-core cable (L1, L2, L3, PE)	• Aluminum wire cable -S: 95mm <sup>2</sup> ~240mm <sup>2</sup> -Sp $\geq$ S/2	
	Outdoor five-core cable (L1, L2, L3, PE, N)	• Copper wire cable -S: 70mm <sup>2</sup> ~240mm <sup>2</sup> -Sp $\geq$ S/2	
AC cable (Single-Core)	Five single-core outdoor cables	• Aluminum wire cable -S: 95mm <sup>2</sup> ~240mm <sup>2</sup> -Sp $\geq$ S/2	14mm~32mm
		• Copper wire cable -S: 70mm <sup>2</sup> ~240mm <sup>2</sup> -Sp $\geq$ S/2	

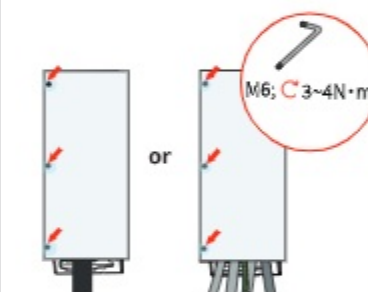
1 Wires making and crimping.



Uncrew and open the maintenance compartment door and AC terminal cover. Select the proper rubber module according to the wire diameter and remove the corresponding rubber ring.



3 Lock the AC cables to the corresponding AC terminals.

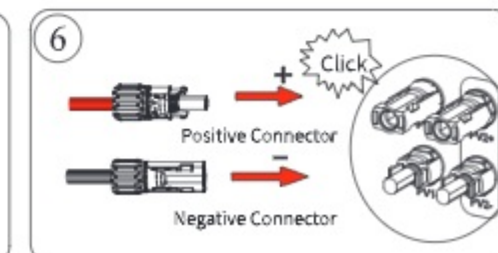
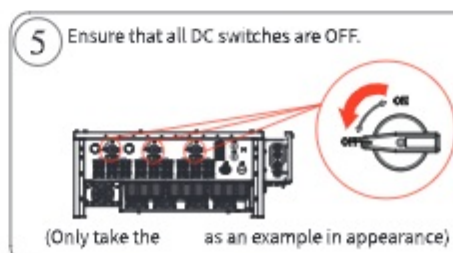
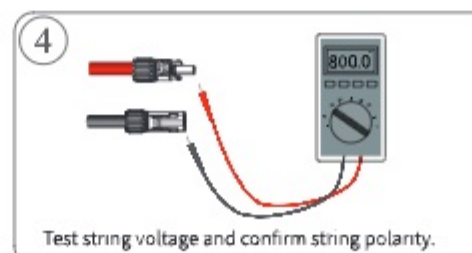
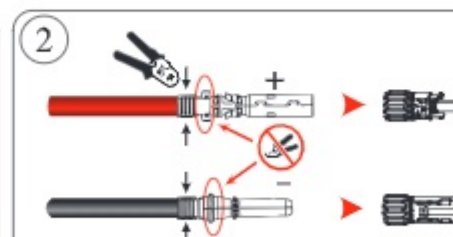
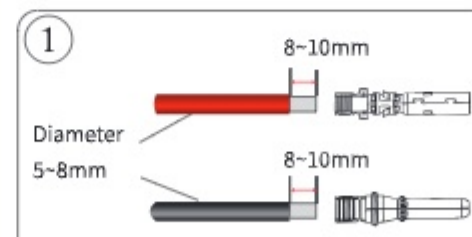


4 Close and lock the maintenance compartment door.

### 6 PV CONNECTION



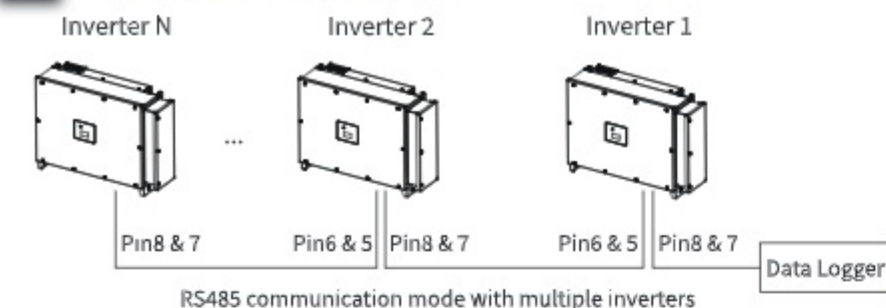
- 1. PV arrays exposed to sunlight will generate dangerous voltages!
- 2. Before connecting the terminal, ensure that both the AC terminal and the DC terminal are powered off and all DC switches are set to OFF. Otherwise there is a risk of high voltage shock.
- 3. Please check polarity of PV connectors! If polarity reversed, do not try to disconnect any PV connector until the irradiance declines and the DC currents fall below 0.5 A! Only then disconnect the PV plugs and correct the polarity before reconnecting.



Note: only use PV dedicated cable for PV connection. PV1-F (4~6mm<sup>2</sup>) cable is recommended.

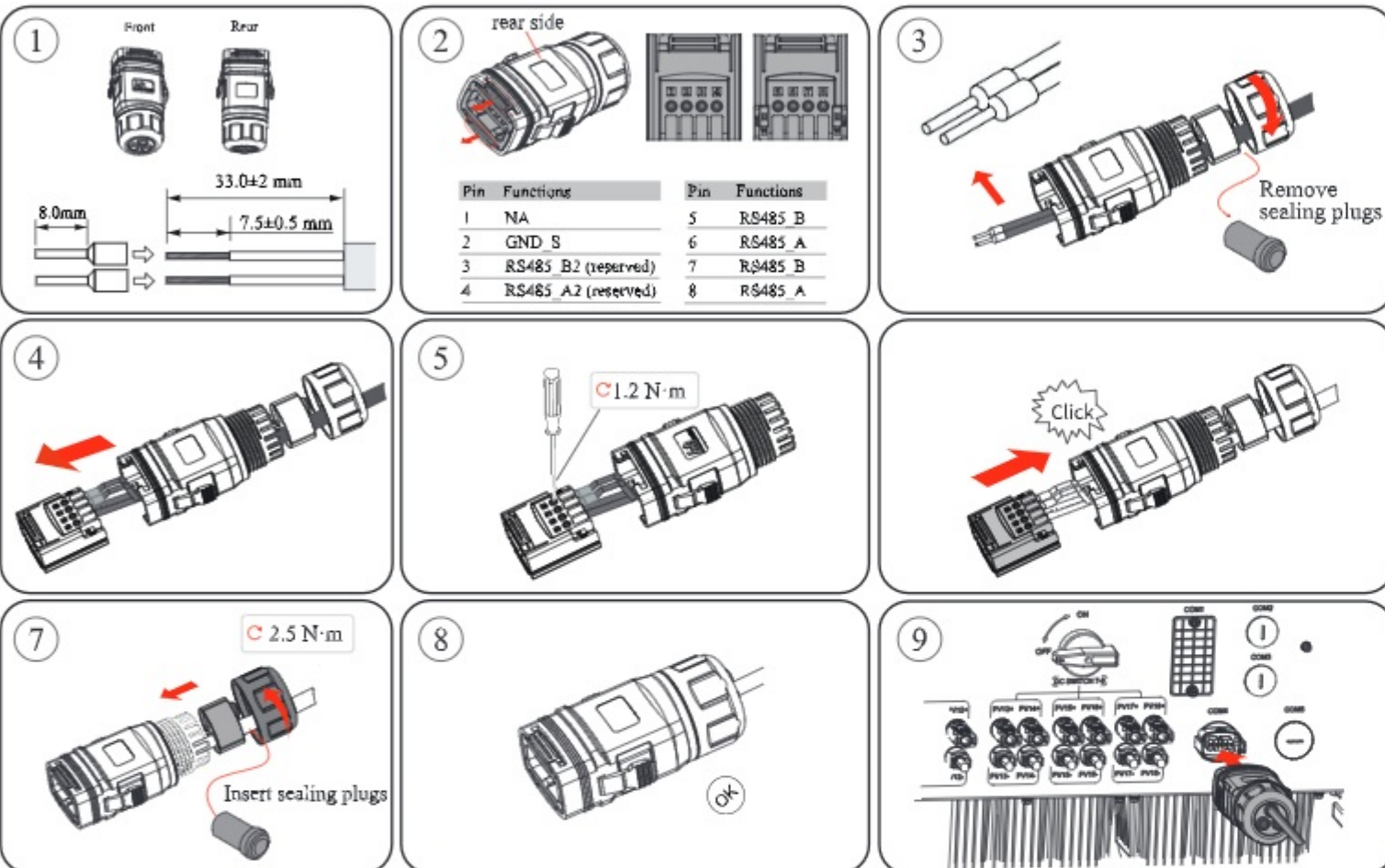


## 7 RS485 CONNECTION



Connect the differential positive and negative signal wires of the first RS485 cable from the data logger (connected to the inverter 1) to Pin8 and Pin7 of the 8-Pin terminal respectively. If there is more than one inverter, connect Pin6 and Pin5 to Pin8 and Pin7 of another inverter.

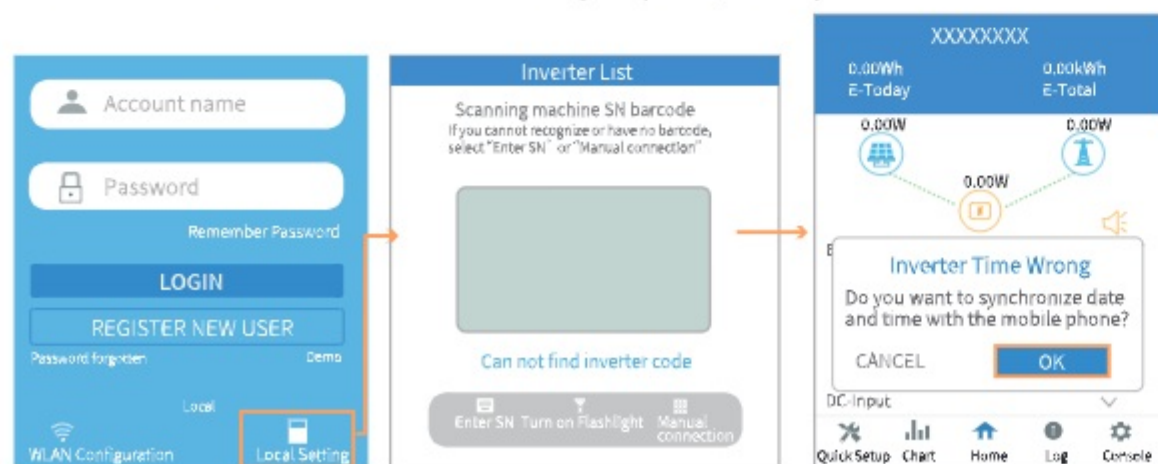
For the last inverter (Inverter N), please enable the RS485 terminal resistor via APP. It is recommended to use shield twisted pair cable.



### 1 Install RS485 terminal.

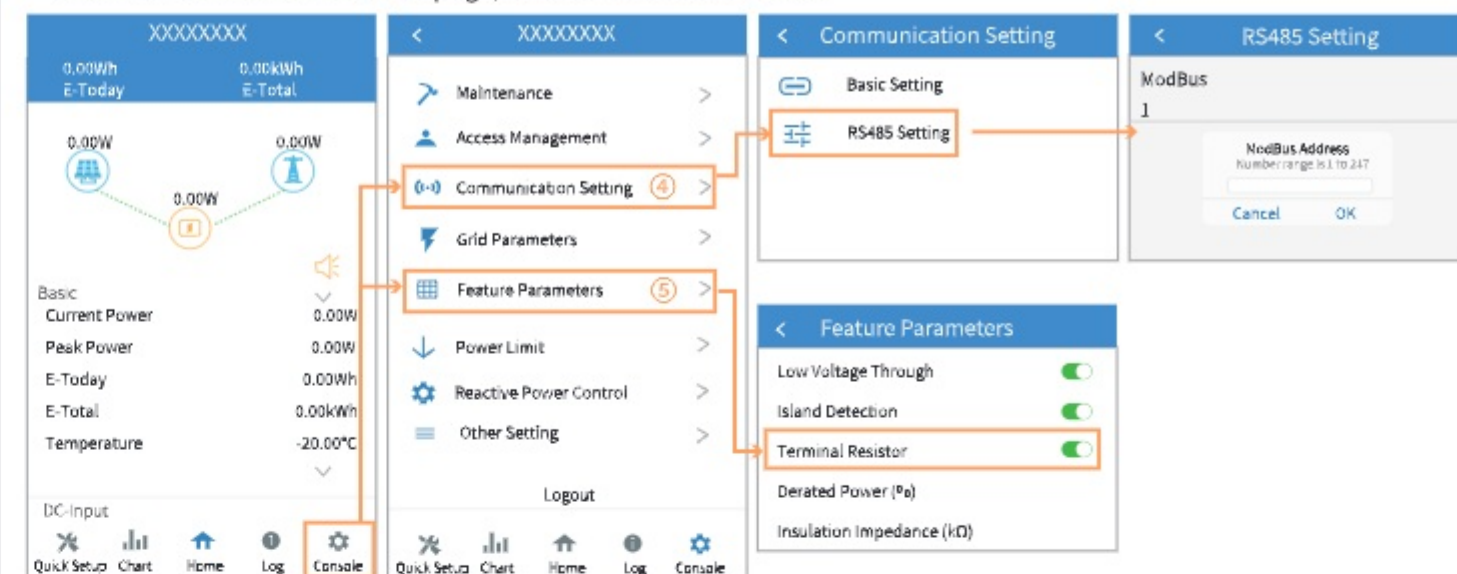
- Download the APP by either of the following ways
  - Scan the QR code on the inverter to download the APP
  - Download the APP from the App Store or Google Play.

Note: You need to grant all access rights in all pop-up windows when installing the APP or setting your phone.
- Power on the inverter.
- Connect the Inverter. Enable the Bluetooth on your phone, then open the APP and follow the instructions below.



### 2 RS485 communication address and terminal resistor setting.

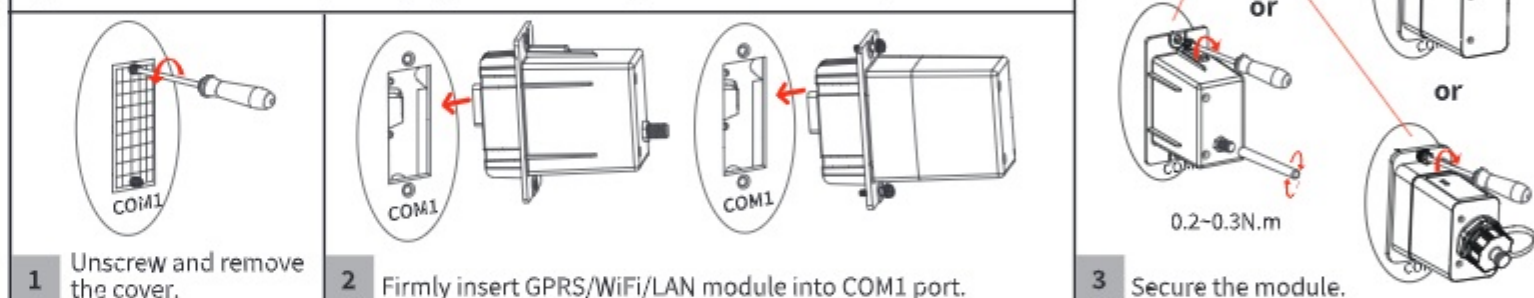
- Go to Console > Communication Setting > RS485 Setting > Modbus Page, check the Modbus address (the default value is 1), and click to modify the address as required if necessary.
- Login as administrator via Console > Access Management > Change user > login as administrator. And then go to Console > Feature Parameters page, enable Terminal Resistor.



### 2 RS485 communication address and terminal resistor setting.

## 8 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.



## 9 STARTUP / SHUTDOWN PROCEDURE

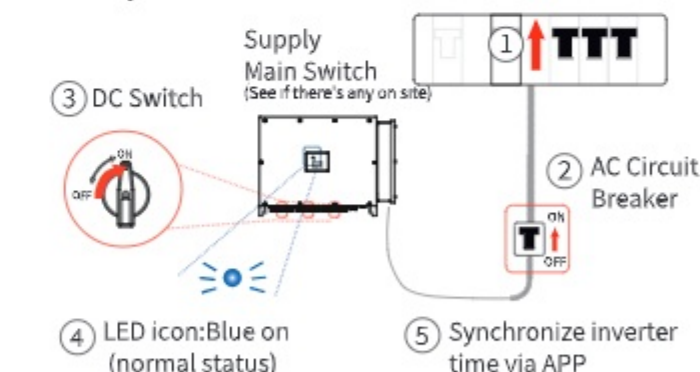
### Inspection

#### No. Items

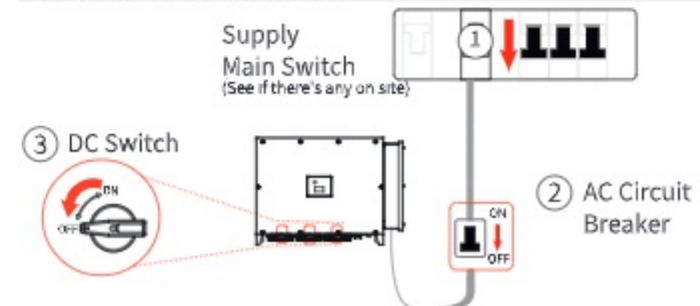
- The inverter is firmly installed.
- There is enough heat dissipation space, no external objects or parts left on the inverter.
- It is convenient for operation and maintenance.
- The wiring of the system is correct and firm.
- Check whether the DC and AC connections are correct with a multimeter, and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



### Shutdown Procedure



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. The APP interface is used for illustration only and the interface color is subject to the actual situation.