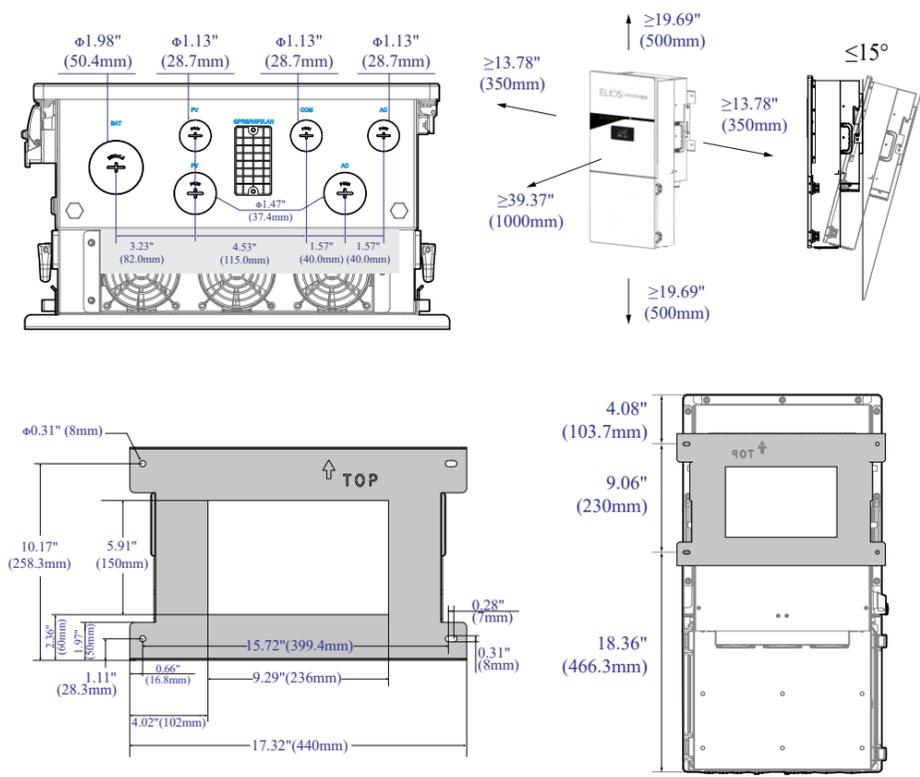
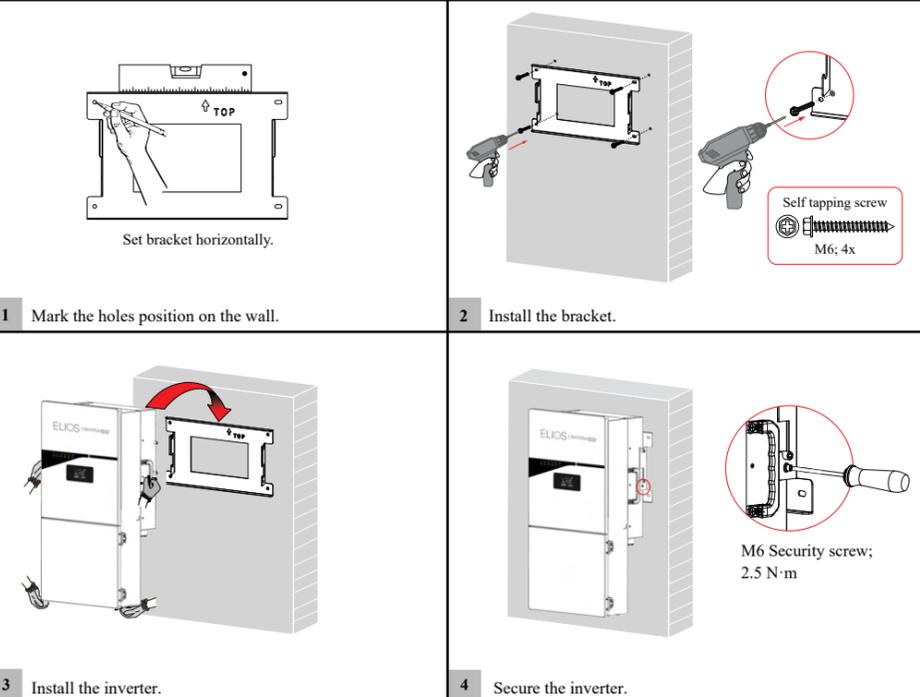


1 Dimensions and Location

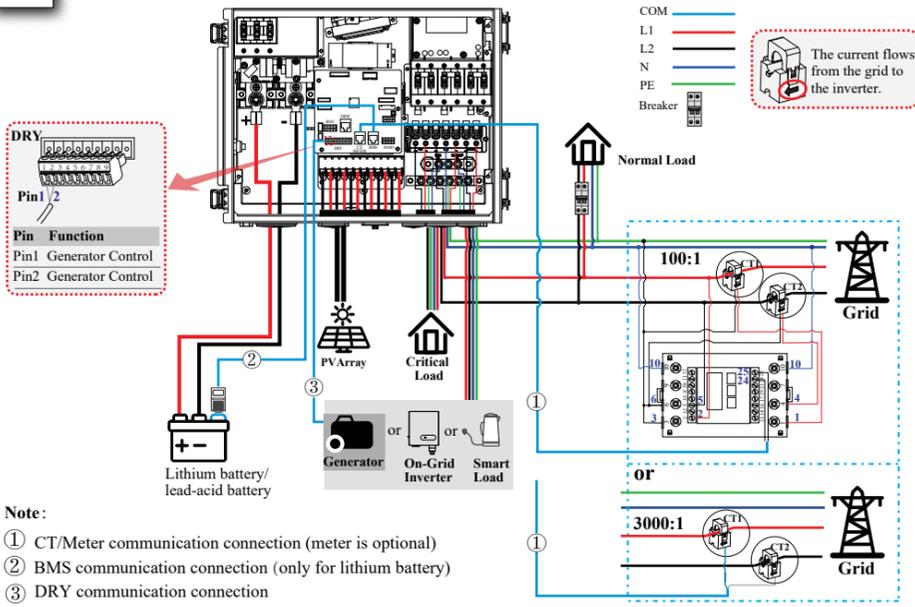


2 Installation

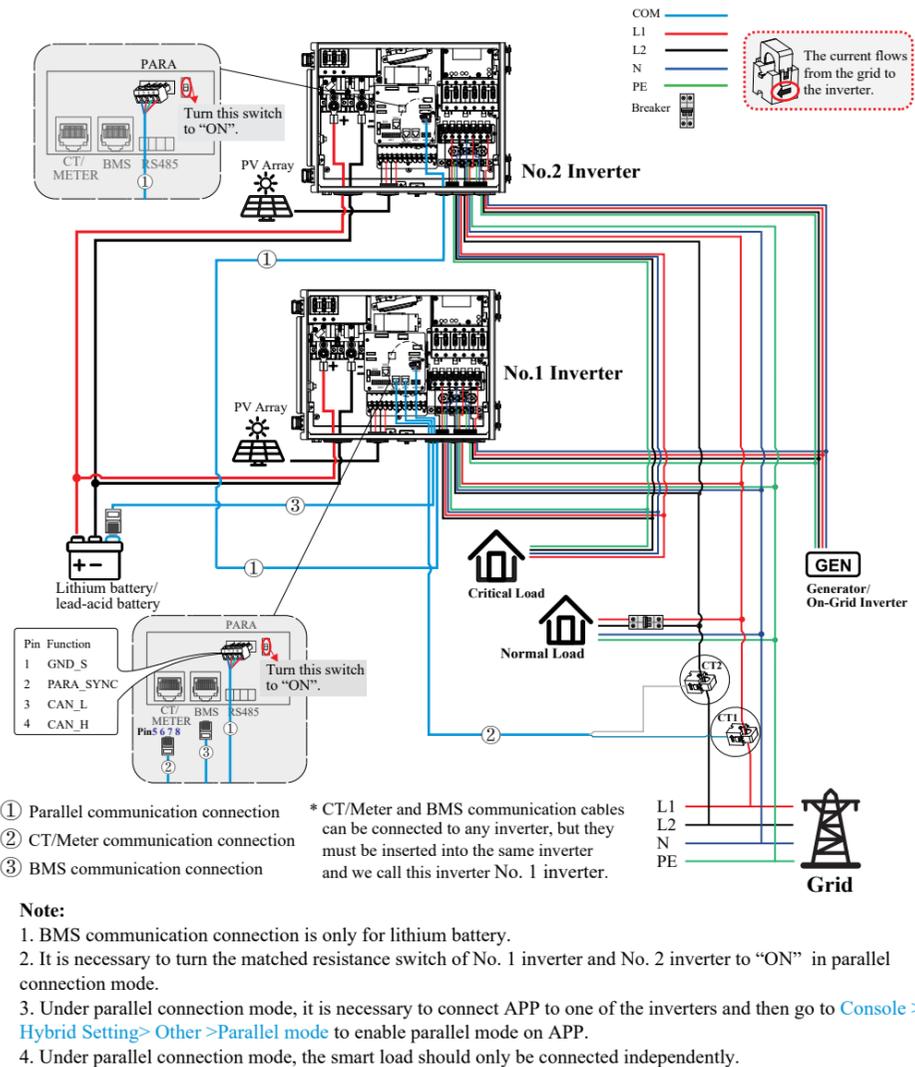
- ⚠** Before drilling holes, check whether there are electrical pipes or other pipes buried in the walls to avoid risks.
- Note:**
- Inverter supports wall-mounting installation and bracket-mounting installation. Make sure the mounting surface or structure can support the weight of the inverter. And the following steps only illustrate wall-mounting installation.
 - Two or three persons are recommended to install the inverter.



3 Wiring System Split phase (120/240Vac) connection diagram (US)

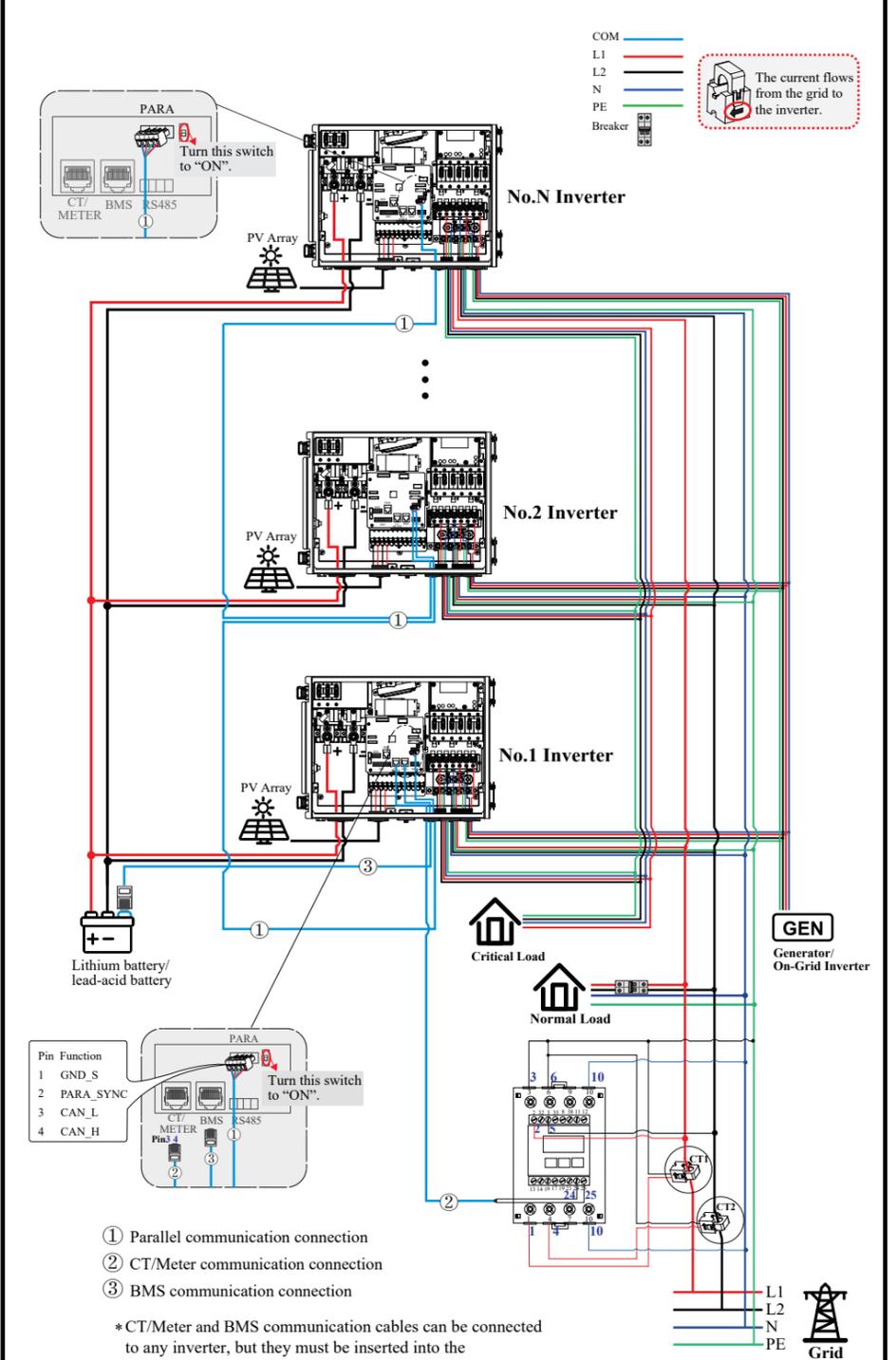


4 Wiring System Split phase parallel connection mode-Scheme A (N=2)



⚠ DANGER 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.

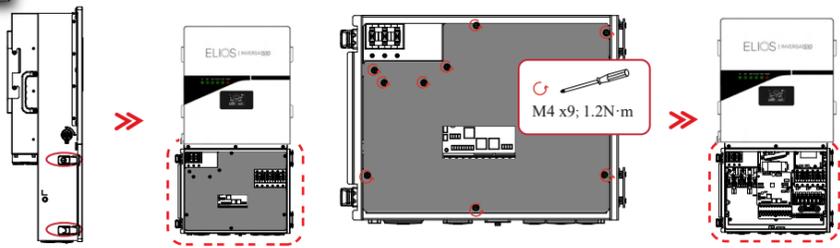
5 Wiring System Split phase parallel connection mode-Scheme B (2<N≤9)



- Note:**
- BMS communication connection is only for lithium battery.
 - It is necessary to additionally purchase suitable CT and meter according to the specific requirements in parallel connection mode-Scheme B. Meter+CT Ratio is 100:1(optional).
 - It is necessary to turn the matched resistance switch of No. 1 inverter and No. N inverter to "ON" in parallel connection mode.
 - Under parallel connection mode, it is necessary to connect APP to one of the inverters and then go to [Console > Hybrid Setting > Other > Parallel mode](#) to enable parallel mode on APP.
 - Under parallel connection mode, the smart load should only be connected independently.

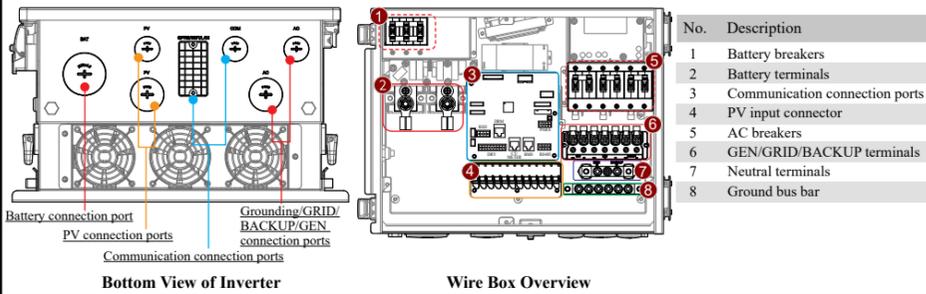
⚠ DANGER Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, high voltage may result in fatal injury.

6 Insulation Piece Removing



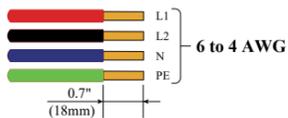
7 Connection Ports Overview

Note: The connection instructions in 8-13 sections will be based on views here, please read them carefully.



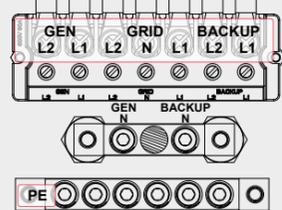
8 Grounding/GRID/BACKUP/GEN Connection

Before connecting the GRID/BACKUP/GEN/Grounding 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.

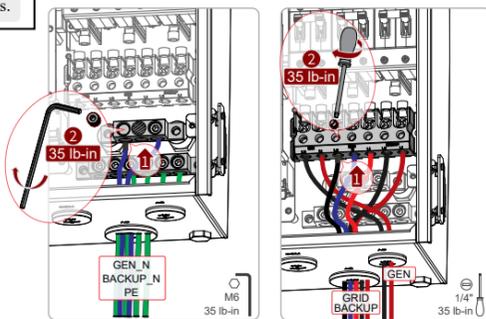


Note: It is recommended to use outdoor dedicated cables.

Terminals Overview

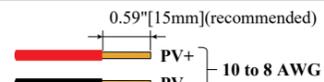


- Thread the wires into wire box through Grounding/GRID/BACKUP/GEN connection ports.
- As shown in the figures below, connect PE, L1, L2, and N to the terminals as labeled, and tighten terminal screws. Please connect the PE cable first.
- Make sure that all wires are securely in place.



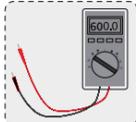
9 PV Connection

- 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: It is recommended to use dedicated PV cable.

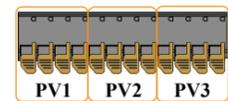
- Verify correct polarity of wire connection from PV modules and PV input connectors.
- The test voltage cannot exceed 600VDC.



Ensure that the PV switch is OFF.



- Thread the wires into wire box through PV connection ports.



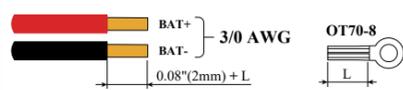
Side view of PV input connector:



- Open PV input connector switch.
- Insert positive pole (+) of connection wire into positive pole (+) of PV input connector.
- Insert negative pole (-) of connection wire into negative pole (-) of PV input connector.
- Close the switch and ensure the wires are tightly fixed.

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.



Note: It is recommended that the battery cable be less than or equal to 3 m.

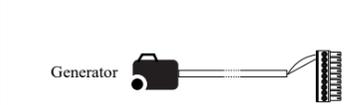
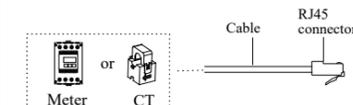
Heat shrinkable tube

1 Wires making.

Warning! Reverse polarity will damage the inverter!

2 Wires connection.

11 Communication Cable(s) Connection (CT/Meter, BMS, DRY)



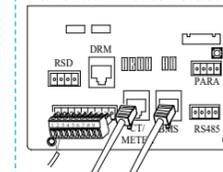
*The inverter is not equipped with RJ45 connectors.

Meter	CT	Pinout Color	CT Cable Color	Pin
RJ45	Meter	Pin5 (CT2-)	White-Blue	White
Pin3 (RS485_A)	Pin24	Pin6 (CT2+)	Green	White
Pin4 (RS485_B)	Pin25	Pin7 (CT1+)	White-Brown	Blue
		Pin8 (CT1-)	Brown	Blue

BMS	Pin	Pin
Pin12	45	RS485_A
Pin1	RS485_B	Pin2
Pin3	Pin4	CAN_H
Pin5	Pin6	CAN_L
Pin7	Pin8	Pin7
Pin8	Pin9	Pin8

DRY	Pin	Pin
Pin1	Generator Control	Pin2
Pin2	Generator Control	

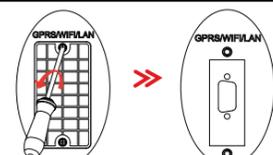
Panel at inverter side:



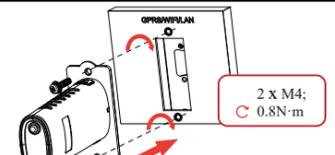
- Assemble the communication cables with an RJ45 connector/9-Pin terminal according to each Pin definition.
- Insert these cables into corresponding communication ports according to panel at inverter side.

12 GPRS/WIFI/LAN Module Installation (Optional)

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



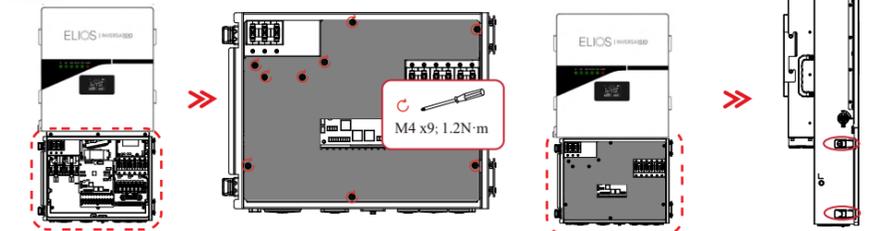
1 Unscrew and remove the cover.



2 Install and secure the module.

13 Insulation Piece Installation

Before installing insulation piece, please turn on all circuit breakers in wire box.



14 Startup/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.

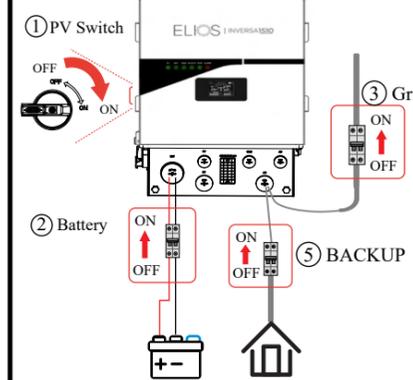
Inspection

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 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.

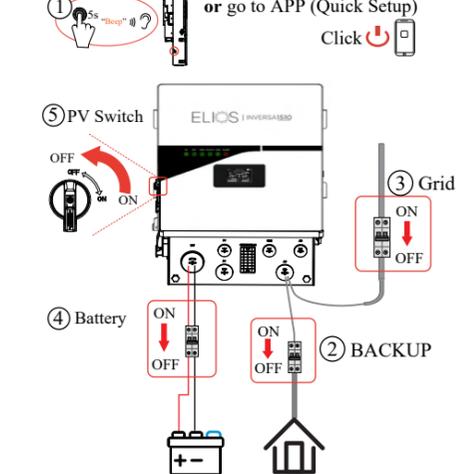
Startup Procedure



The first time: Go to APP (Quick Setup)

The non-first-time: 5s "Beep"

Shutdown Procedure



15 Quick Setup

A Preparation

- Download the App *SolarHope* for local settings.
 - Scan the QR code on the inverter to download the App.
 - Download the App from the App Store or Google Play.

NOTE

- The App *SolarHope* is only for local settings. Detailed information about remote monitoring, please refer to corresponding WIFI User Manual.
- 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.

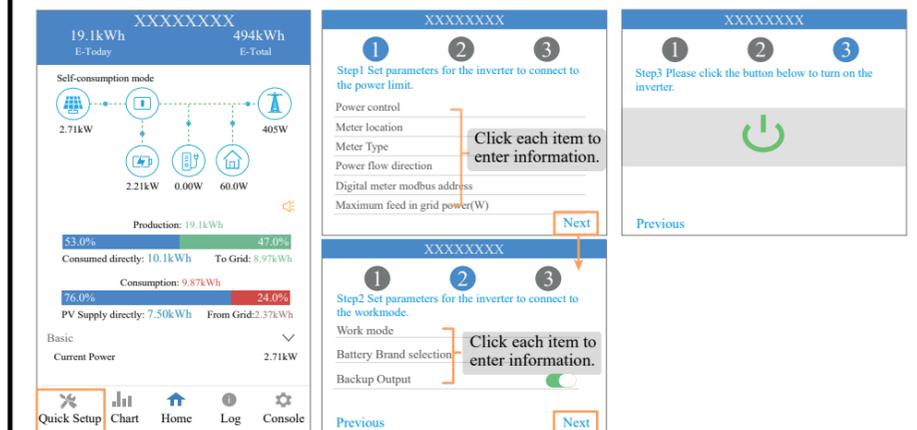
- Power on the inverter.

B Connecting the Inverter

- Enable the Bluetooth on your phone and open the APP.
- Follow the instructions below.



C Quick Setup



For details about the LED panel, please refer to the *User Manual*.