

## Quick Installation Guide

### Hybrid Inverter(Hyper 3-6kW)

## II

## Packing List


Notice: The image shown here is for reference only. The actual product and quantity are based on delivery.

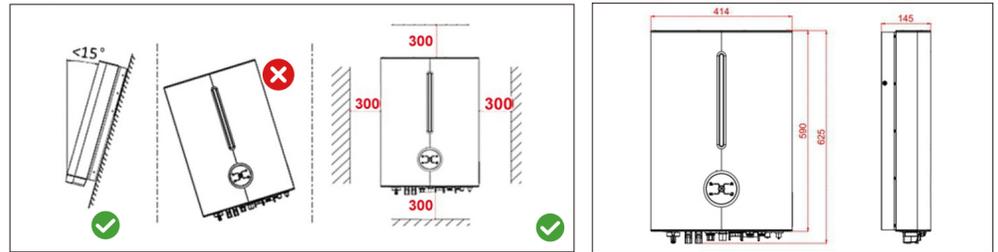
## I

## Preparation Tools

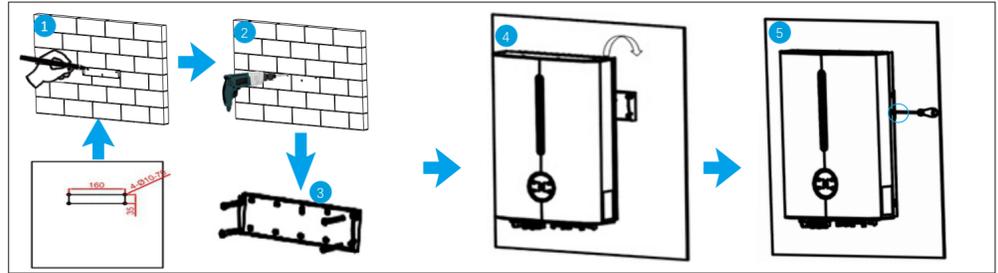

## III

## Mounting

### A Installation requirements



### B Wall mounting

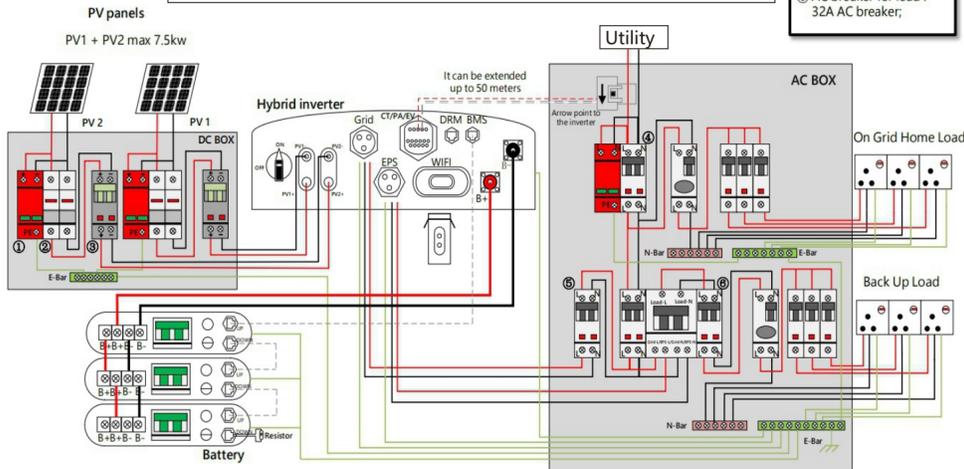


## IV

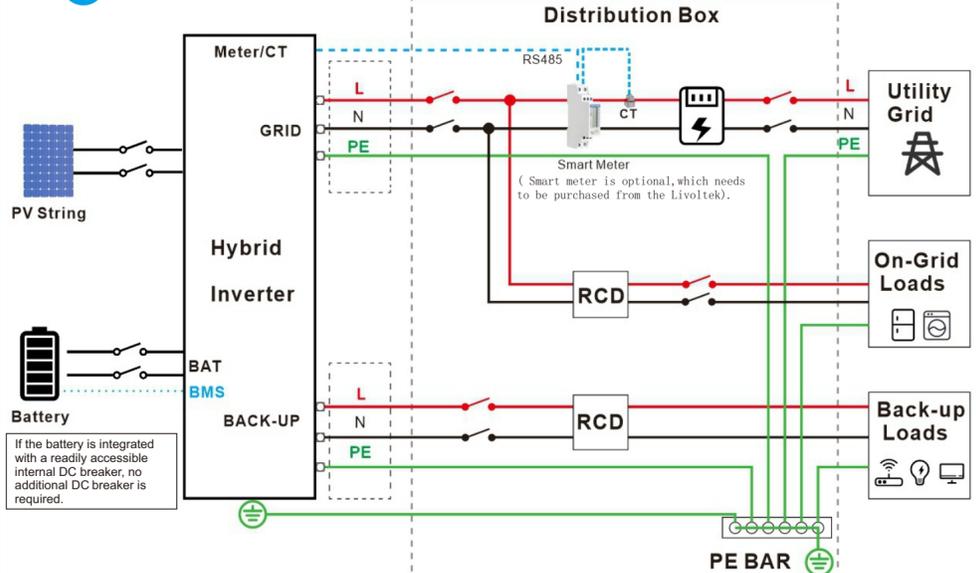
## Wiring Diagram

### A Electrical Connection Overview

① DC SPD: 650V	<p>This diagram indicates the wiring structure instead of the electric wiring standard of hybrid inverter.</p> <p>1. For batteries with attached breaker, the external DC breaker could be omitted.</p> <p>2. The recommended values in the table are for reference only.</p> <p>3. The actual values must comply with local standard and actual conditions.</p> <p>4. Only for lithium battery which has BMS communication.</p> <p>5. Direction of the CT cannot be connected in reverse.</p> <p>Please follow "→Inverter" direction to do the connection</p>	④ AC breaker for grid : 63A AC breaker;
② DC fuse: 30A		⑤ AC breaker for inverter : 32A AC breaker;
③ DC isolator: 20A		⑥ AC breaker for load : 32A AC breaker;



### B System Connection Diagram (Applies to most countries)



Notice: N and PE wiring via ON-GRID and BACK-UP ports of the inverter are different based on the regulation requirements of different regions. Refer to the specific requirements of local regulations. Ensure that the grounding of BACK-UP is correctly and tightened. Otherwise, the BACK-UP function may be abnormal in case of grid failure.

## V

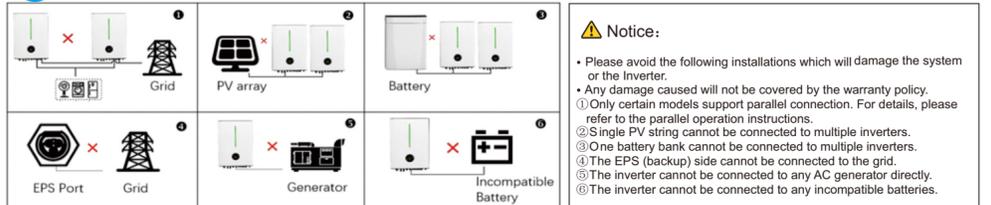
## PE Cable Connection

### A Please prepare the cable before connecting as follows.

No.	Cable	Cross Section	Cable diameter (mm)
1	PV cables	4mm <sup>2</sup> - 6mm <sup>2</sup>	12~10 AWG
2	AC cables	3-5kW 4-6mm <sup>2</sup> , 6kW 6-8mm <sup>2</sup>	3-5kW 12~10 AWG, 6kW 10~8 AWG
3	Battery power cables	25mm <sup>2</sup>	4 AWG
4	PE cable	4mm <sup>2</sup> - 6mm <sup>2</sup>	10 AWG

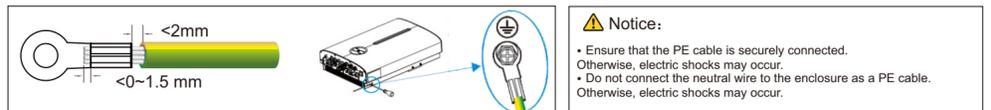
Notice: Do not work with power on. All operations, cables and parts specification during the electrical connection shall be in compliance with local laws and regulations. Disconnect the DC switch of the inverter to power a fifth inverter before any electrical connections.

### B Unacceptable Installations



Notice: Please avoid the following installations which will damage the system or the inverter. Any damage caused will not be covered by the warranty policy. Only certain models support parallel connection. For details, please refer to the parallel operation instructions. Single PV string cannot be connected to multiple inverters. One battery bank cannot be connected to multiple inverters. The EPS (backup) side cannot be connected to the grid. The inverter cannot be connected to any AC generator directly. The inverter cannot be connected to any incompatible batteries.

### C External Grounding (PE Cable) Connection

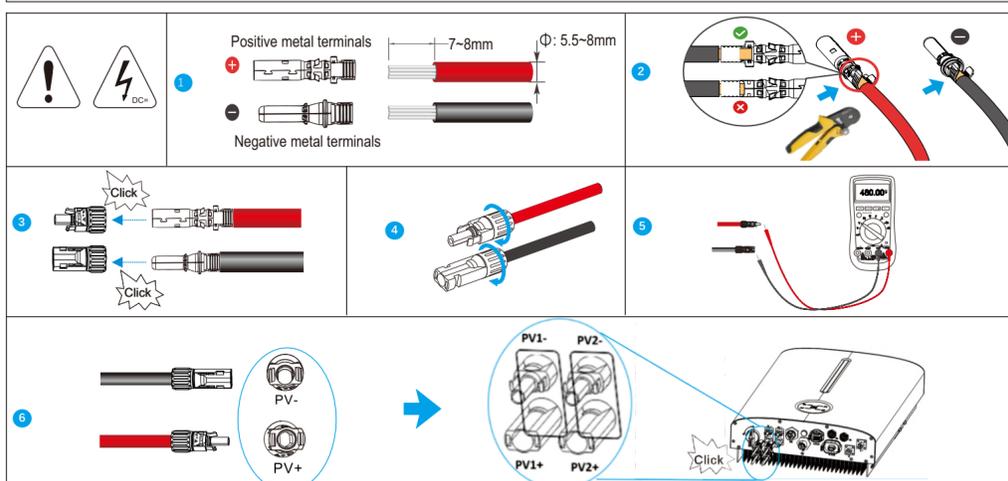


Notice: Ensure that the PE cable is securely connected. Otherwise, electric shocks may occur. Do not connect the neutral wire to the enclosure as a PE cable. Otherwise, electric shocks may occur.

## VI

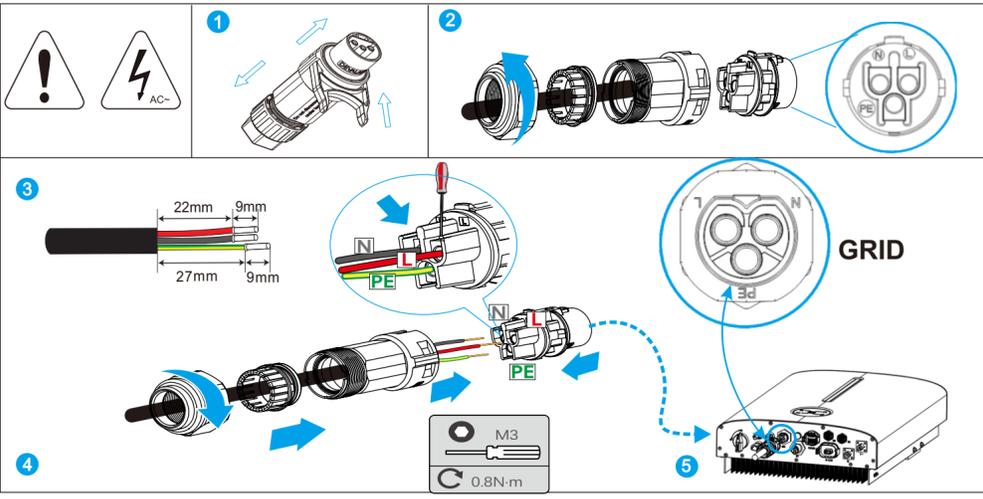
## PV Cable Connection

- Remove an appropriate length of the insulation layer from the PV Strings power cables.
- Connect the red wire to the positive metal terminal, and the black to the negative and crimp them using a crimping tool.
- Insert the crimped positive and negative power cables into the corresponding connectors until a "click" sound is heard.
- Tighten the locking nuts on the positive and negative connectors.
- Measure the voltage of every route Strings using a multimeter. Ensure that the polarities of the DC input power cables are correct.
- Insert the positive and negative connectors into their corresponding terminals of the inverter until a click sound is heard.



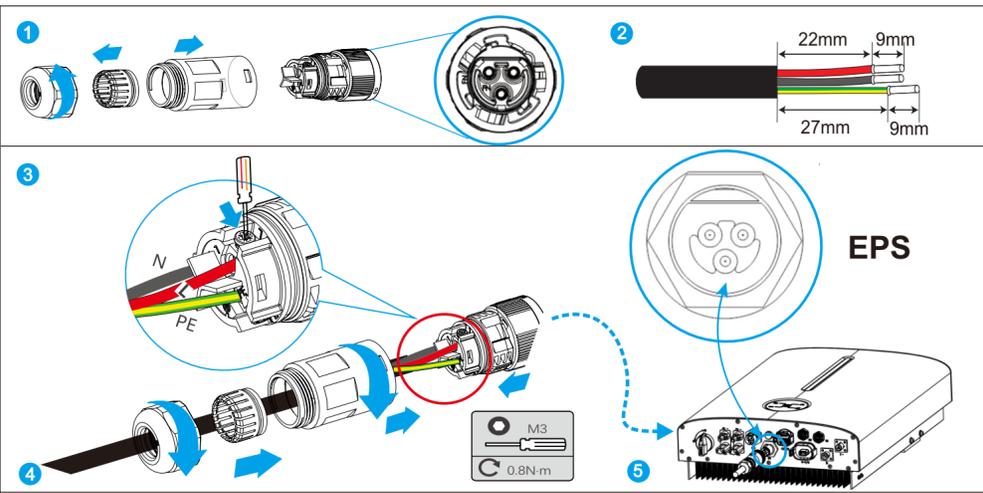
## VII AC GRID Connection

- Step 1 Take out the AC terminal from the package box and uninstall it as below chart.
- Step 2 Put the AC cables through the terminal cap, threaded sleeve in sequence.
- Step 3 Remove the cable jackets and strip the wire insulation then insert cables into connection terminals according to polarities indicates on it and tighten the screws.
- Step 4 Push threaded sleeve onto the connection terminal until both are locked tightly. Then screw up the terminal cap.
- Step 5 Unscrew the cap on the Grid port. Then insert the Grid connector into the Grid port on the bottom of the inverter.

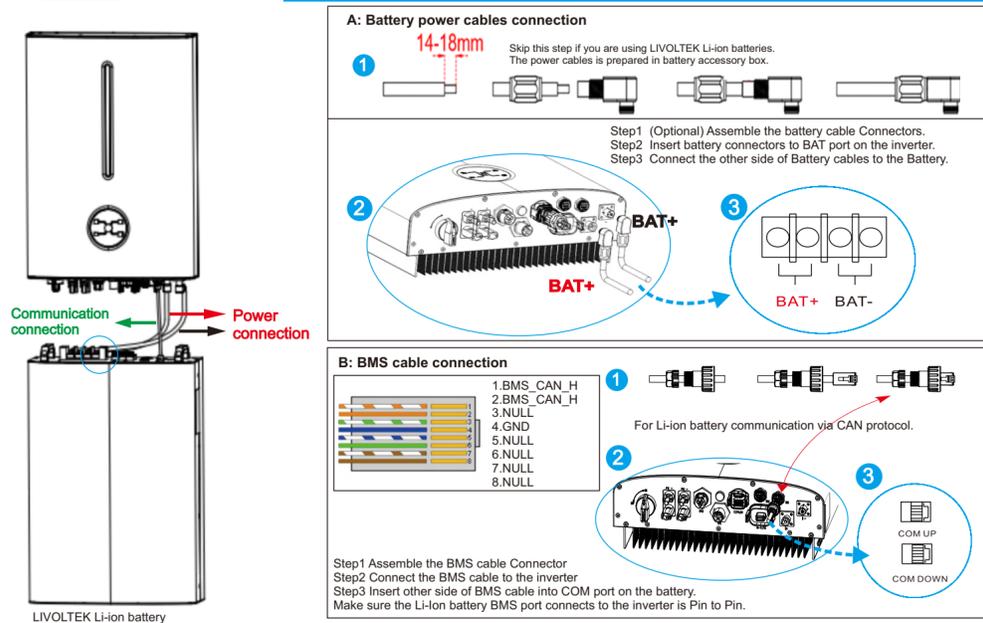


## VIII Emergency Load Connection (Backup)

- Step 1 Take out the EPS terminal from the package box and unscrew it as below chart.
- Step 2 Thread the AC cable of appropriate length through the terminal cap, the sealing ring and the housing.
- Step 3 Remove the cable jackets and strip the wire insulation then insert cables into connection terminals according to polarities indicates on it and tighten the screws.
- Step 4 Push threaded sleeve onto the connection terminal until both are locked tightly. Then screw up the terminal cap.
- Step 5 Insert the EPS connector into the EPS port on the bottom of the inverter. Connect the other ends to the backup loads.



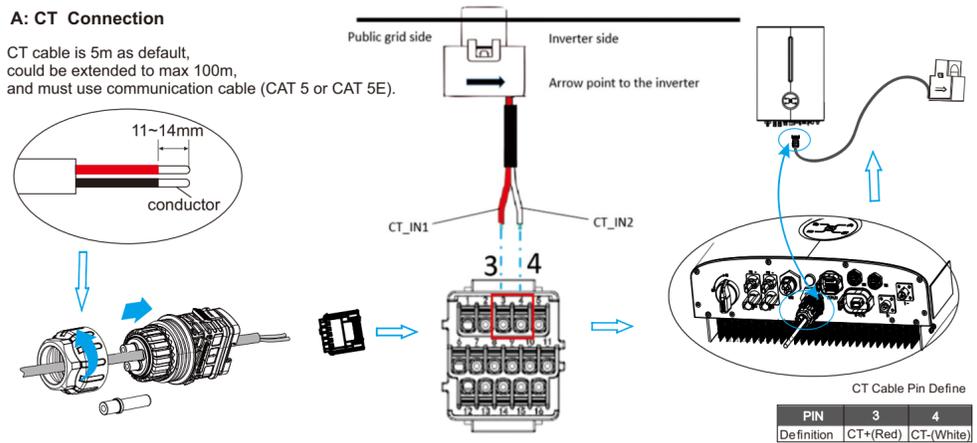
## X Battery Connection



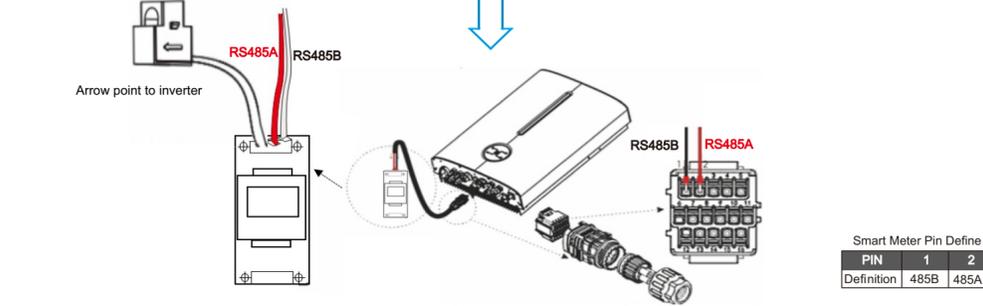
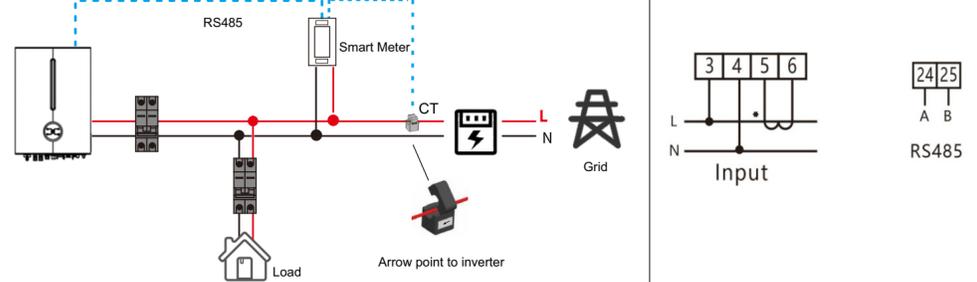
## IX COM(CT/Meter/NTC) Connection

### A: CT Connection

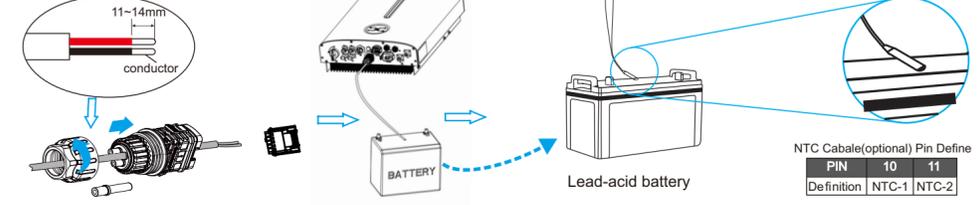
CT cable is 5m as default, could be extended to max 100m, and must use communication cable (CAT 5 or CAT 5E).



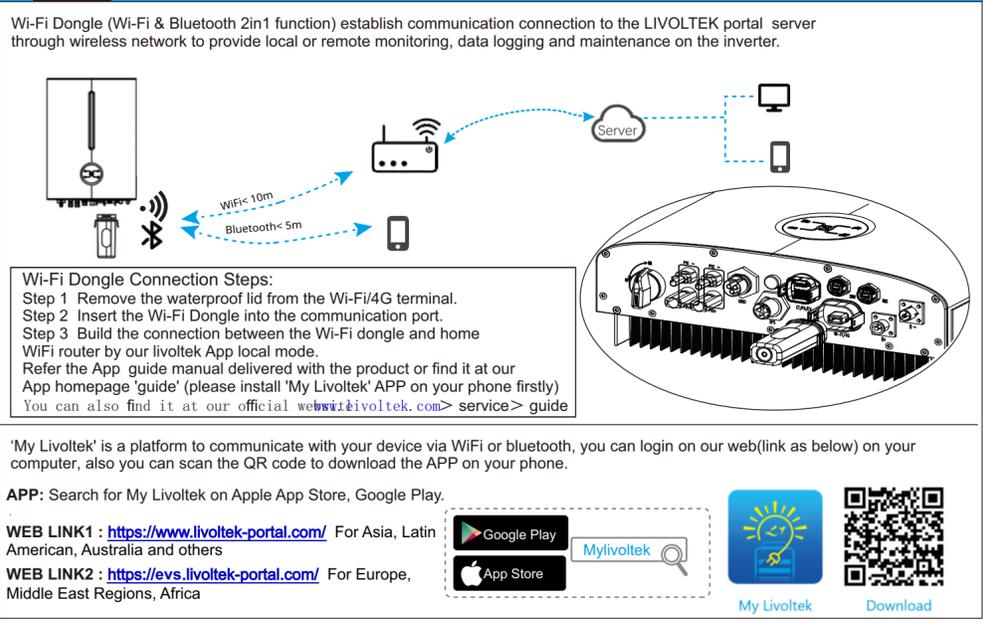
### B: Smart Meter (optional)+ CT Connection



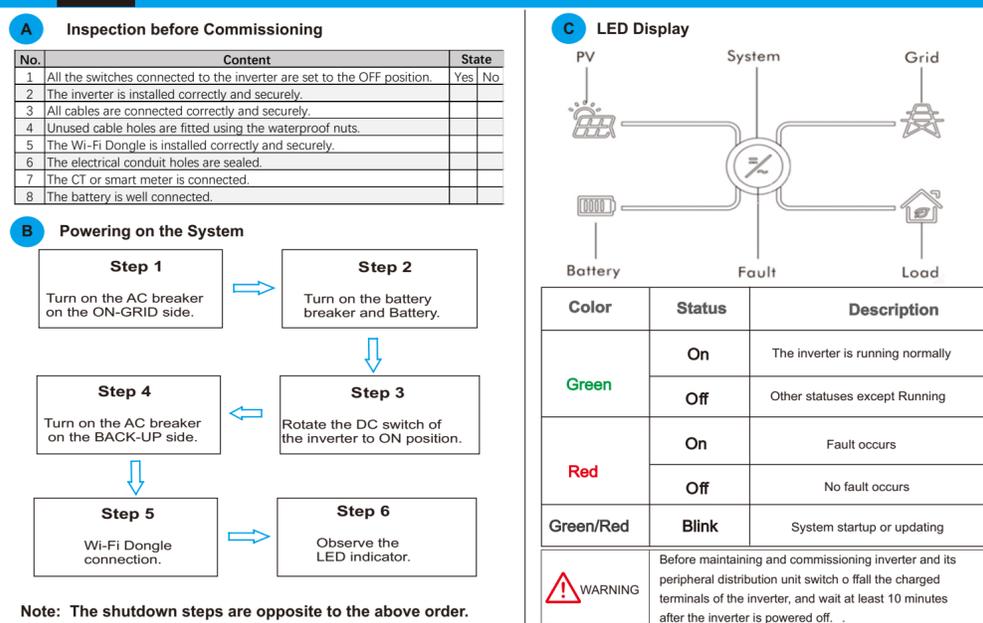
### C: Thermal sensor Connection



## XI Wi-Fi Dongle Connection



## XII Power ON/OFF the Inverter



## XIII Initial Parameter Setting

