

Quick Installation Guide

Hybrid Inverter(Hyper 3-6kW)



Scan the QR code to view more information.

II

Packing List

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

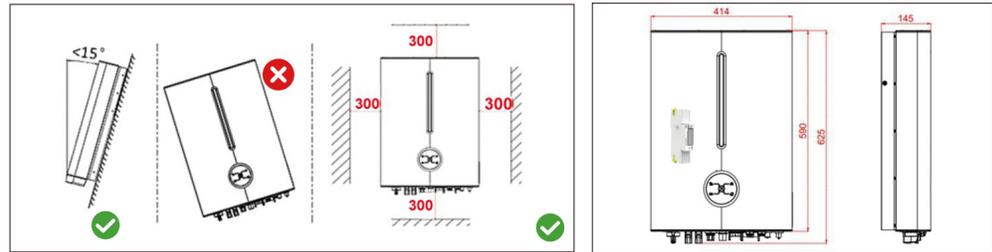
I

Preparation Tools

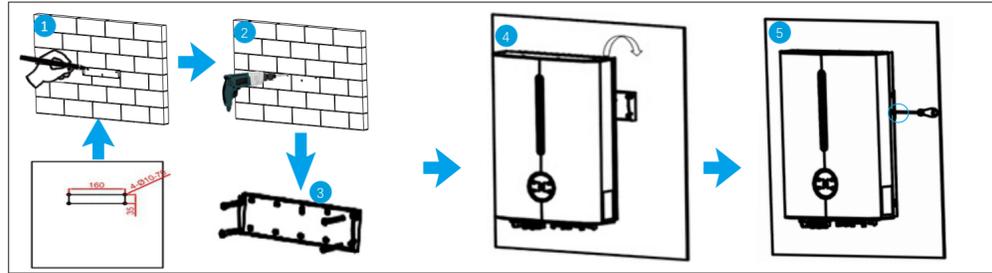
III

Mounting

A Installation requirements



B Wall mounting

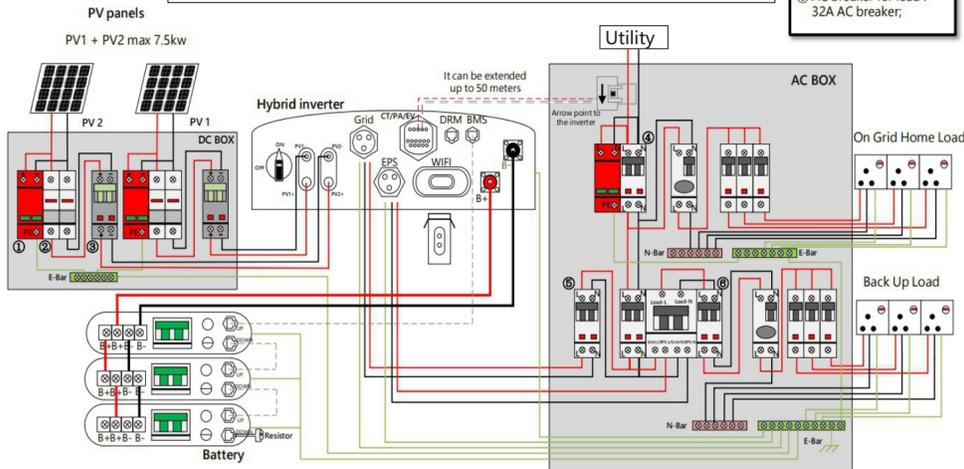


IV

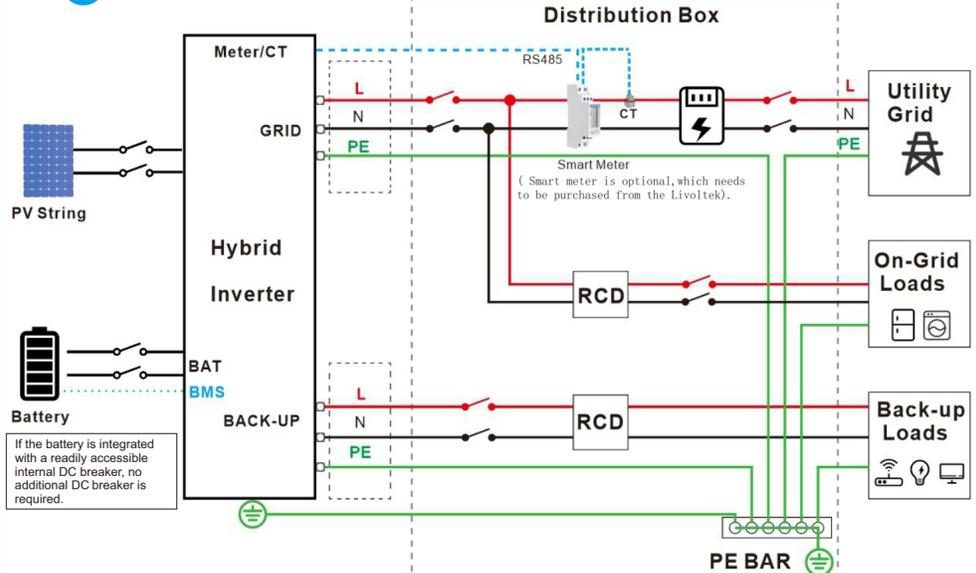
Wiring Diagram

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

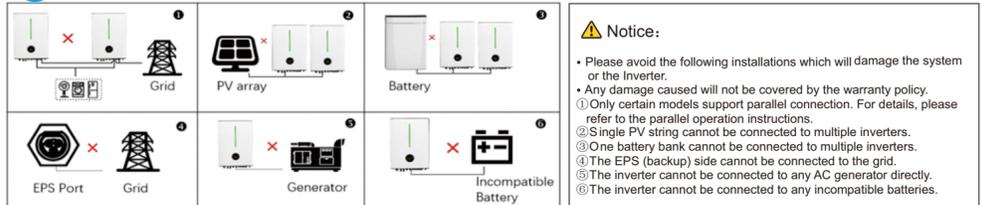
A Please prepare the cable before connecting as follows.

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

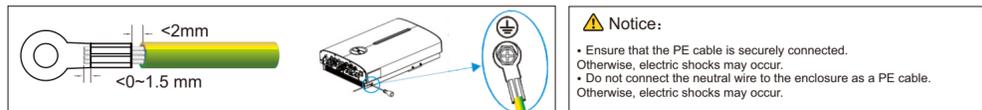
Notice:

- 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



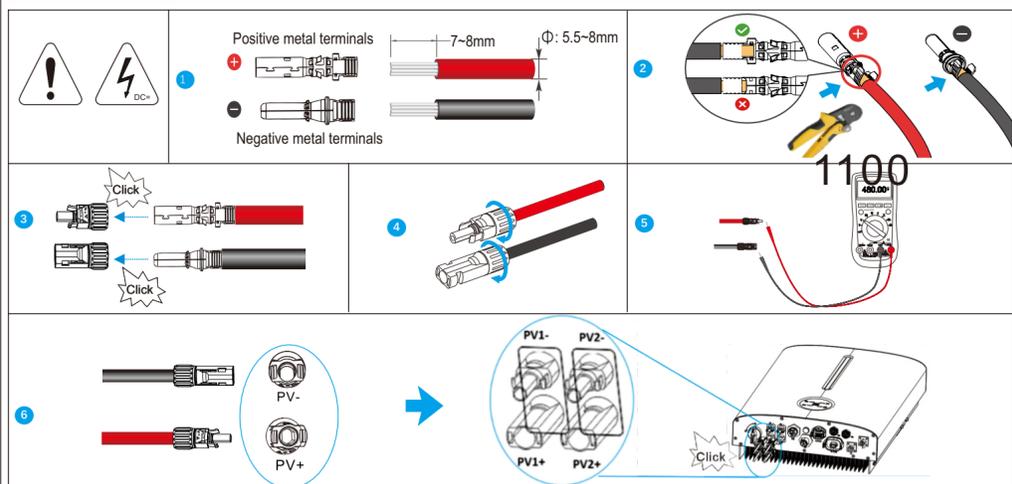
C External Grounding (PE Cable) Connection



VI

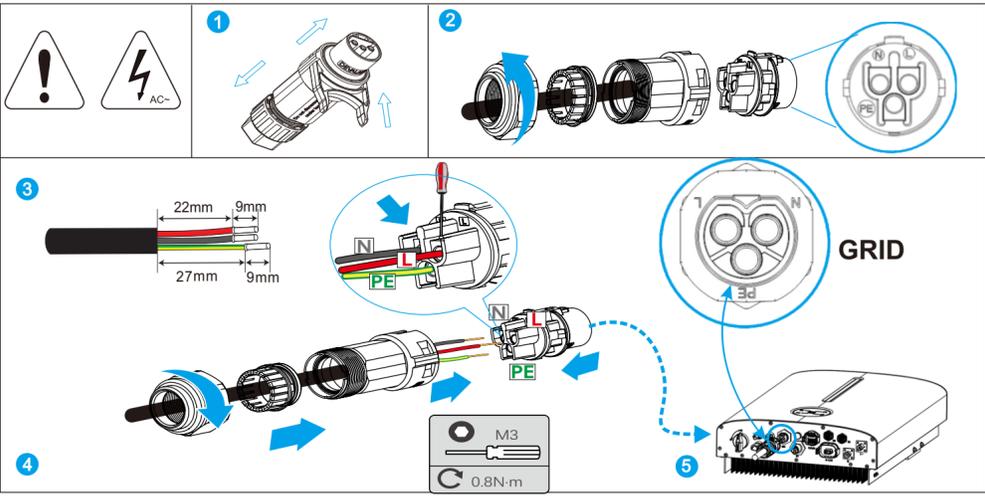
PV Cable Connection

- 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.



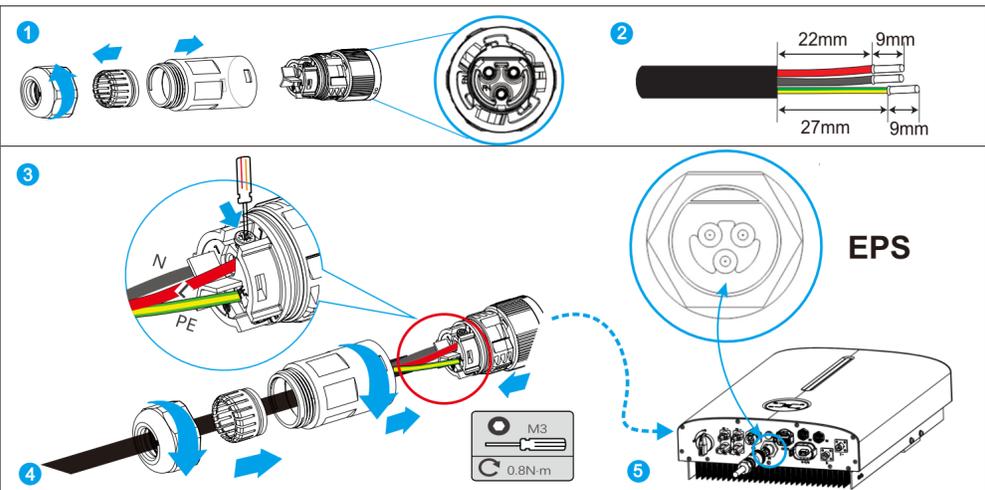
VII AC GRID Connection

- 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)

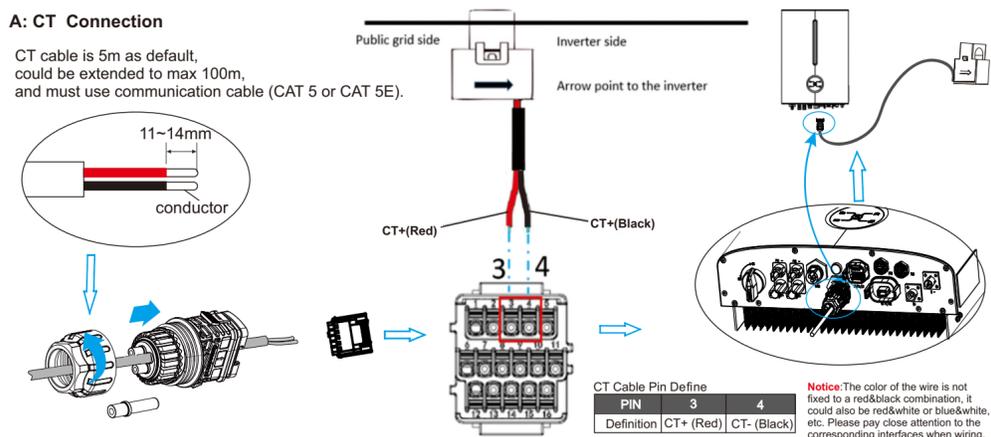
- Step 1 Take out the EPS terminal from the package box and unscrew it as below chart.
- Step 2 Thread the AC cable of appropriate length through the terminal cap, the sealing ring and the housing.
- Step 3 Remove the cable jackets and strip the wire insulation then insert cables into connection terminals 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.



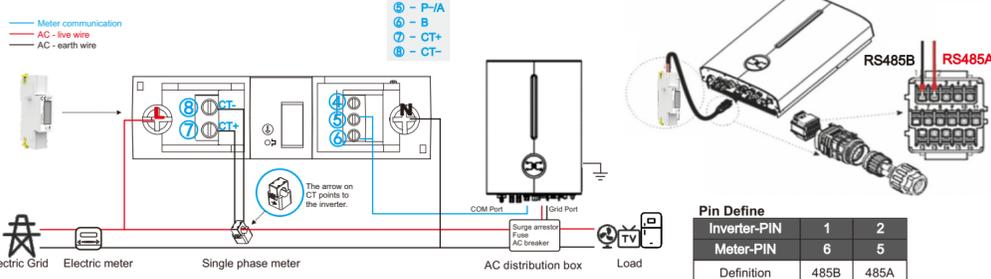
IX COM(CT/Meter/NTC) Connection

A: CT Connection

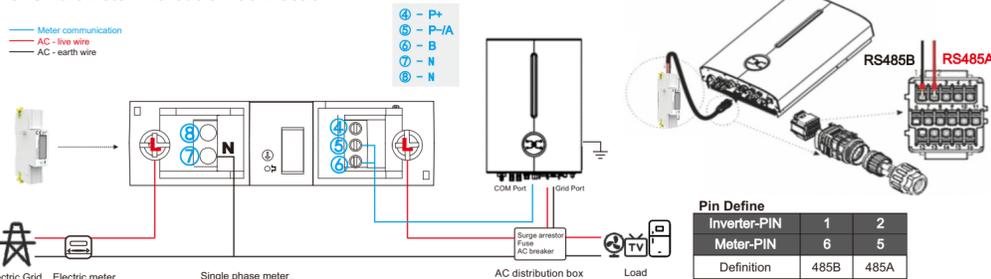
CT cable is 5m as default, could be extended to max 100m, and must use communication cable (CAT 5 or CAT 5E).



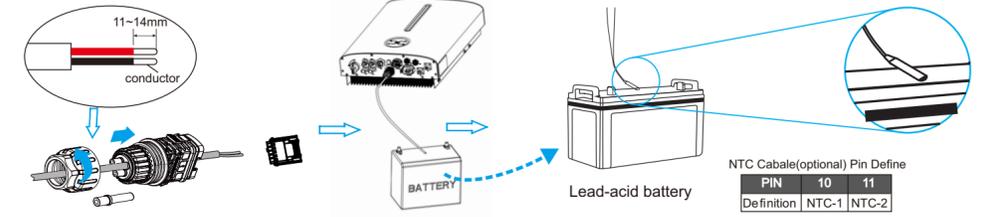
B: Smart Meter with CT Connection



C: Smart Meter without CT Connection

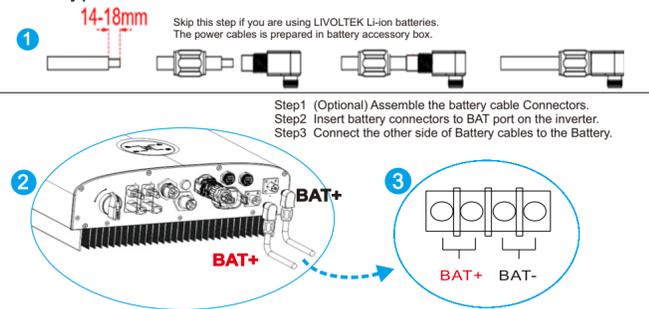


D: Thermal sensor Connection

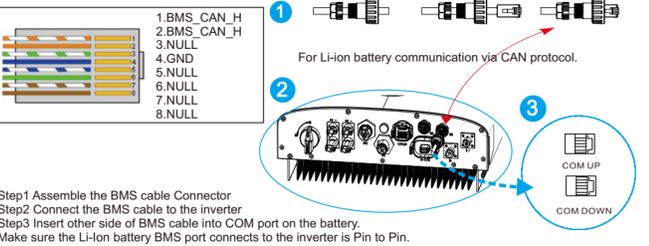


X Battery Connection

A: Battery power cables connection



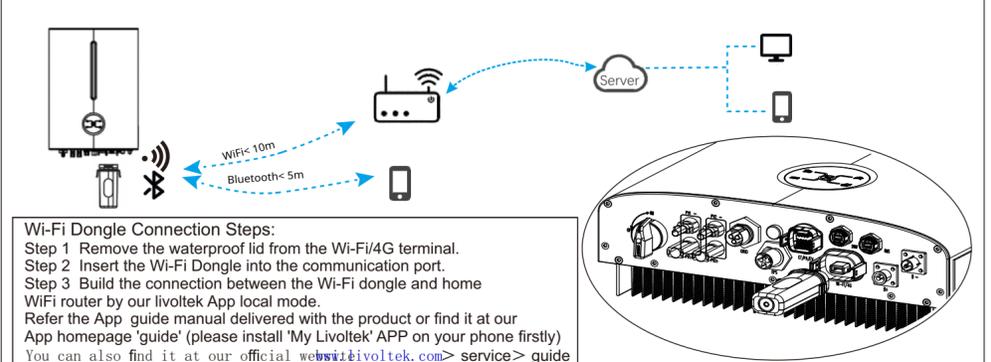
B: BMS cable connection



Step1 Assemble the BMS cable Connector
Step2 Connect the BMS cable to the inverter
Step3 Insert other side of BMS cable into COM port on the battery.
Make sure the Li-ion battery BMS port connects to the inverter is Pin to Pin.

XI Wi-Fi Dongle Connection

Wi-Fi Dongle (Wi-Fi & Bluetooth 2in1 function) establish communication connection to the LIVOLTEK portal server through wireless network to provide local or remote monitoring, data logging and maintenance on the inverter.



'My Livoltek' is a platform to communicate with your device via WiFi or bluetooth, you can login on our web(link as below) on your computer, also you can scan the QR code to download the APP on your phone.

APP: Search for My Livoltek on Apple App Store, Google Play.

WEB LINK1 : <https://www.livoltek-portal.com/> For Asia, Latin American, Australia and others

WEB LINK2 : <https://evs.livoltek-portal.com/> For Europe, Middle East Regions, Africa

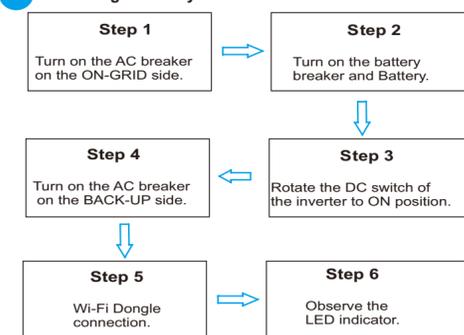


XII Power ON/OFF the Inverter

A Inspection before Commissioning

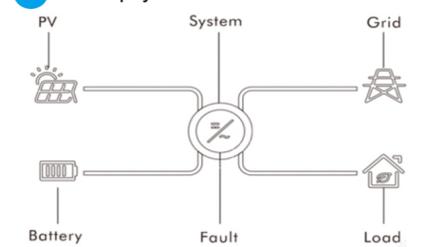
No.	Content	State
1	All the switches connected to the inverter are set to the OFF position.	Yes/No
2	The inverter is installed correctly and securely.	
3	All cables are connected correctly and securely.	
4	Unused cable holes are fitted using the waterproof nuts.	
5	The Wi-Fi Dongle is installed correctly and securely.	
6	The electrical conduit holes are sealed.	
7	The CT or smart meter is connected.	
8	The battery is well connected.	

B Powering on the System



Note: The shutdown steps are opposite to the above order.

C LED Display



Color	Status	Description
Green	On	The inverter is running normally
	Off	Other statuses except Running
Red	On	Fault occurs
	Off	No fault occurs
Green/Red	Blink	System startup or updating

WARNING Before maintaining and commissioning inverter and its peripheral distribution unit switch off all the charged terminals of the inverter, and wait at least 10 minutes after the inverter is powered off.

XIII Initial Parameter Setting

