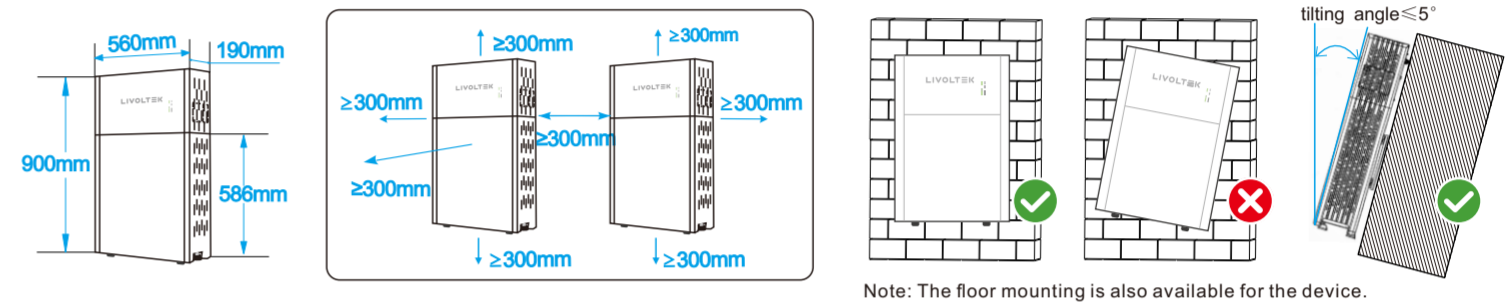


Quick Installation Guide

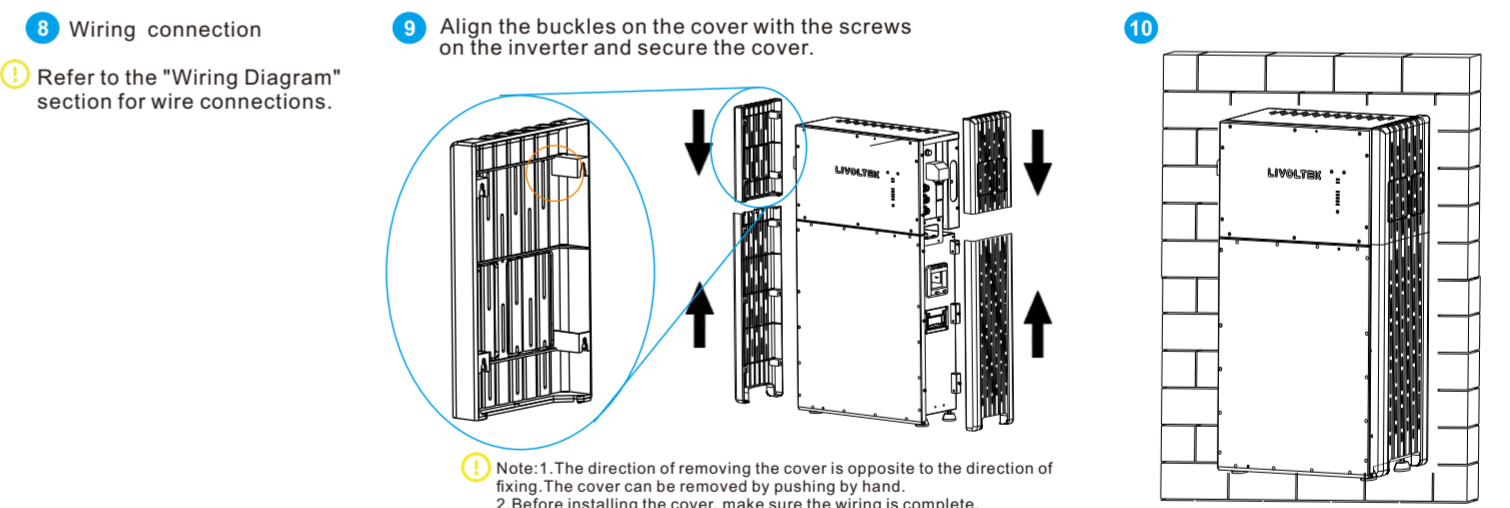
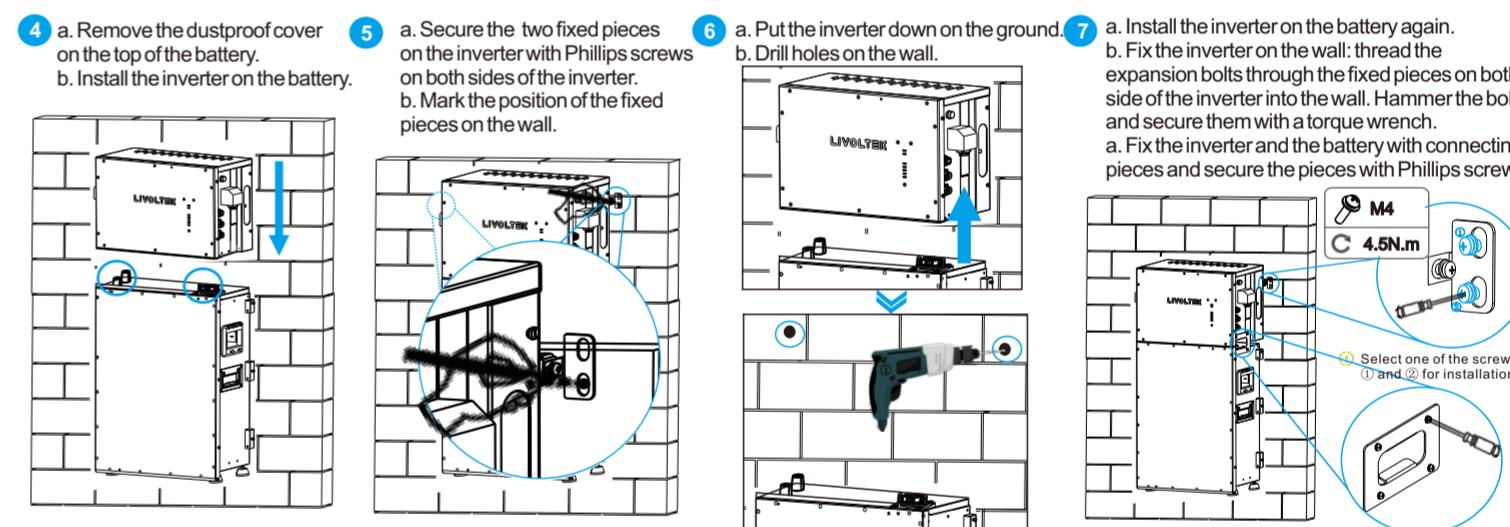
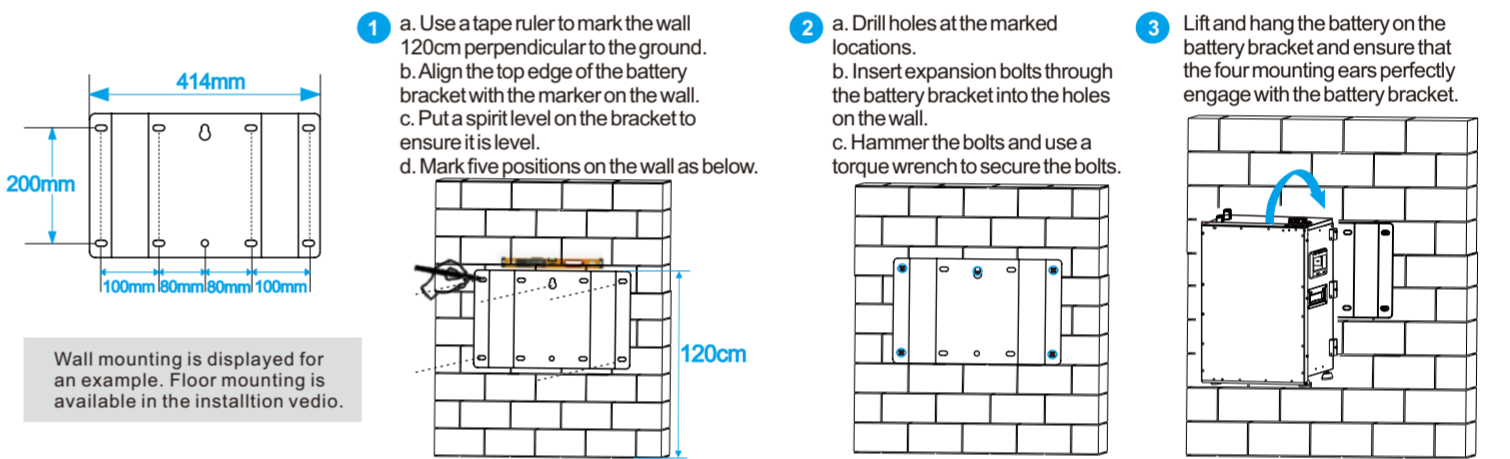
iPower AES1-3K/3.6K/4.6K/5KEG1

Quick Installation Guide *1 Certification *1 User Manual *1			

A Installation Requirements

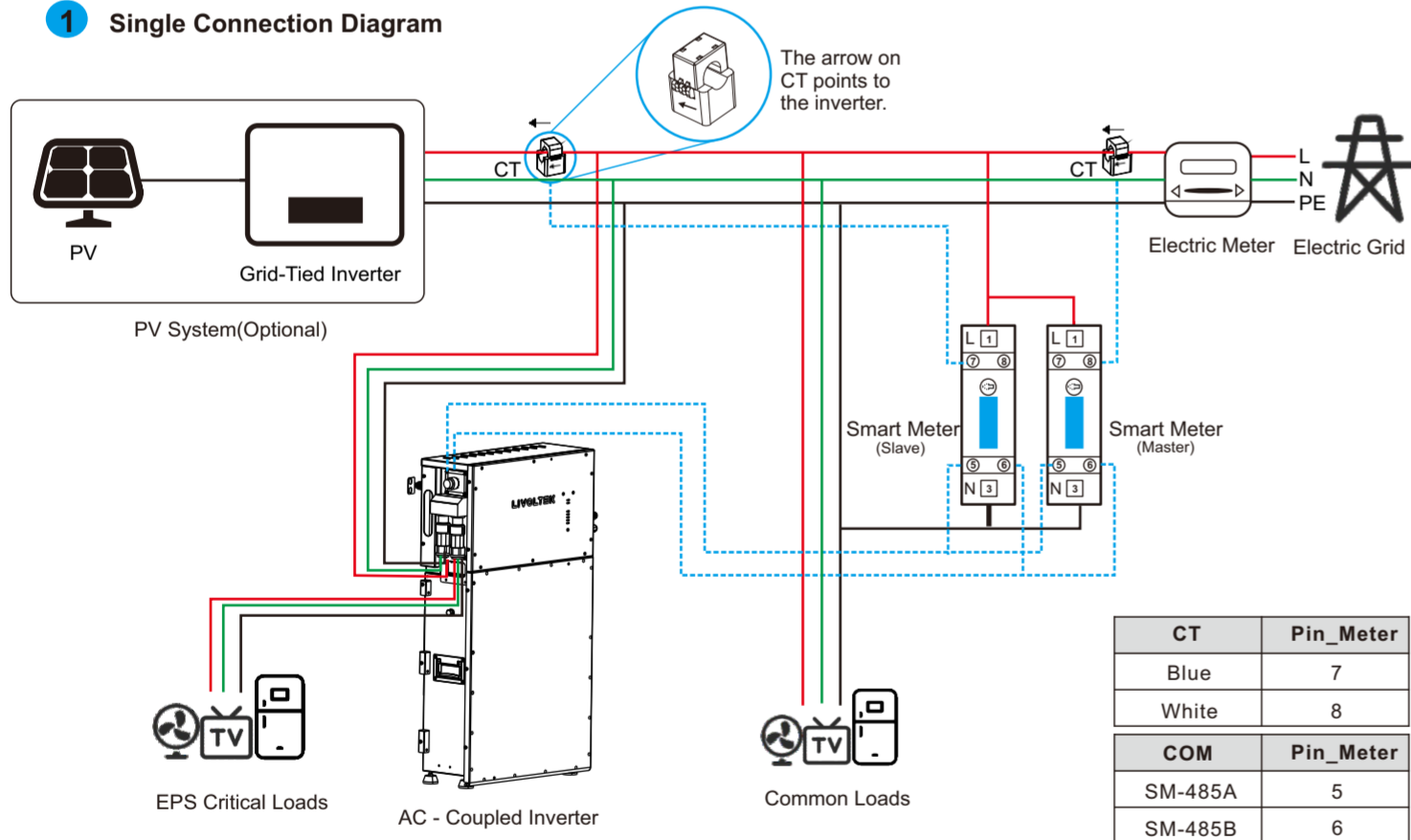


B Wall Mounting

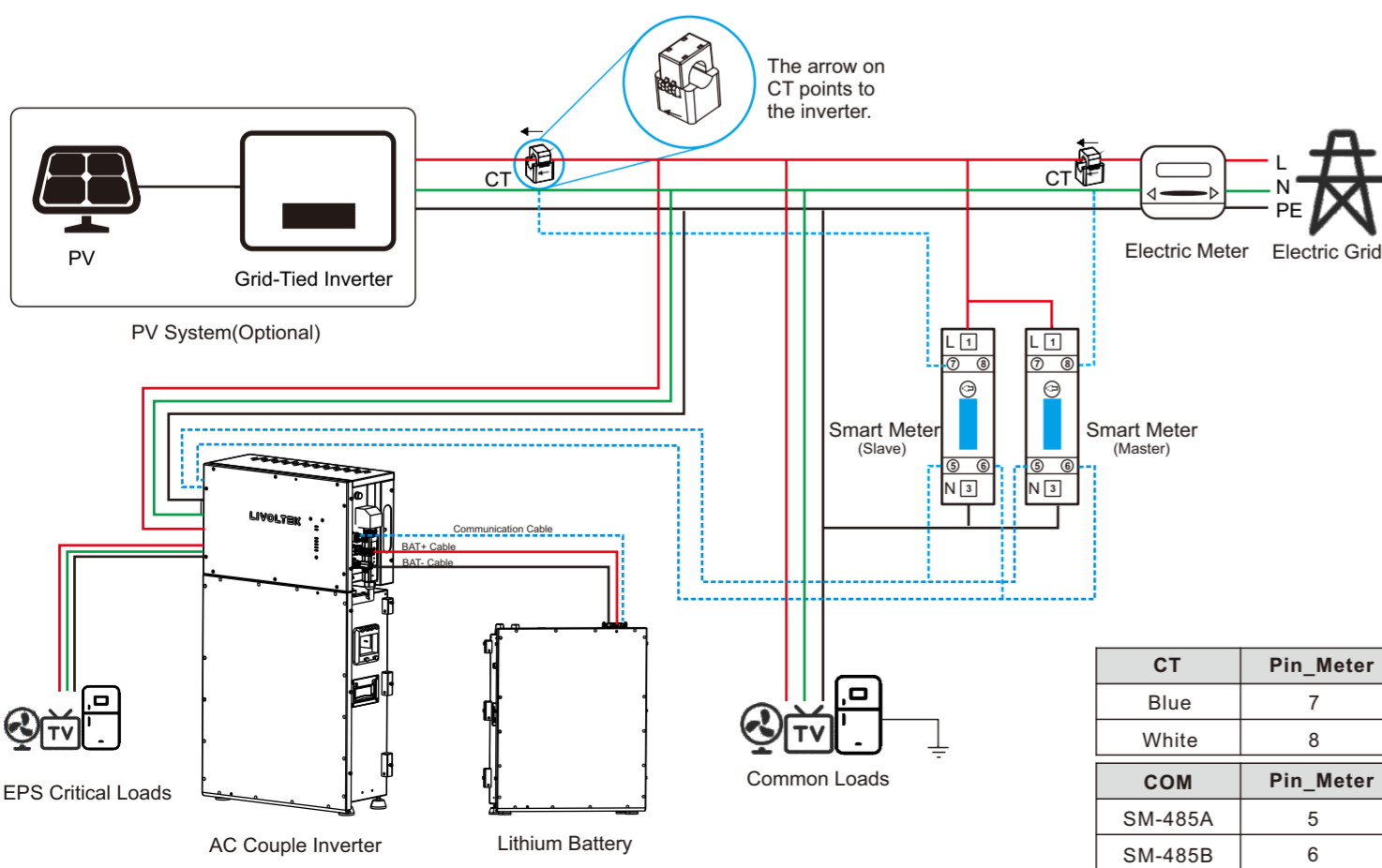


A Electrical Connection Diagram

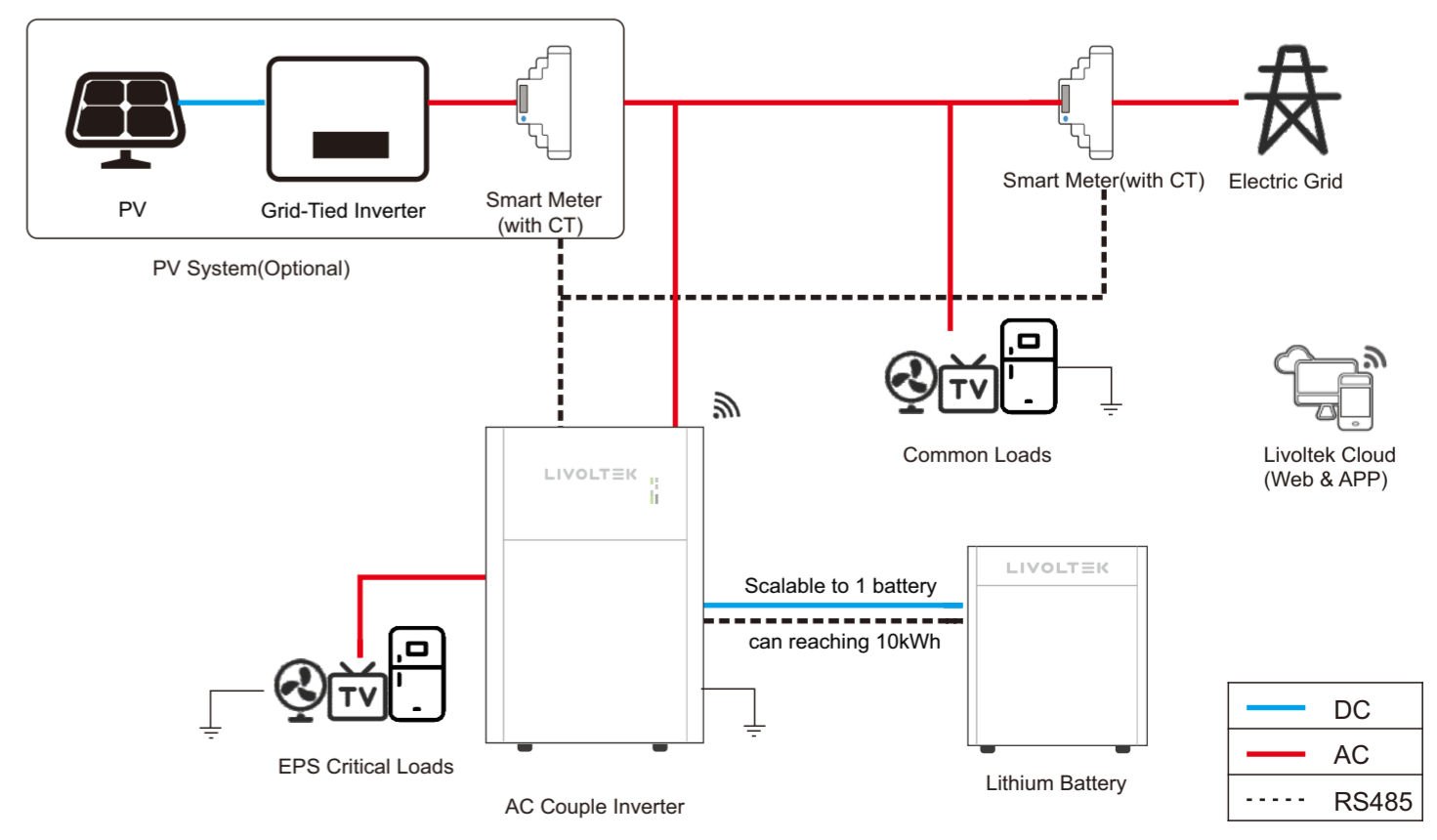
1 Single Connection Diagram



2 Parallel Connection Diagram



B System Connection Diagram



A Please prepare the cable before connecting as follows

No.	Cable	Cross Section	Cable Diameter
1	PE cables	4-6mm ²	12-10 AWG
2	AC cables	4-6mm ²	12-10 AWG
3	Battery power cables	25mm ²	4 AWG
4	Network cable(recommend)	/	2-core

⚠ 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 off the inverter before any electrical connections.

B External Grounding (PE Cable) Connection

1 Suggested spec: 10AWG wire

2 Heat-shrinktube (5mm)

3 Crimping terminal

4 Crimping terminal

5 Crimping terminal

6 Fasten on the inverter

⚠ 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.
- The housing grounding of the inverter and the neutral line ground of cannot be grounded together, electric shocks may occur.

- Step 1** Remove the cable jackets and strip the wire insulation
Step 2 Take out the AC terminal from the package box and uninstall it as below chart. Put the AC cables through the terminal cap, threaded sleeve in sequence.
Step 3 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.

1 To ensure safety, cut off power first.

2 Strip cables

3 Use the AC terminal removal tool to remove the terminal.

4

5

- Step 1** Remove the cable jackets and strip the wire insulation.
Step 2 Take out the AC terminal from the package box and uninstall it as below chart. Put the AC cables through the terminal cap, threaded sleeve in sequence.
Step 3 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 EPS port. Then insert the EPS connector into the EPS port on the bottom of the inverter.

1

2 Strip cables

3

4

5

1 Strip the cable insulation for 6-8mm.

4 Insert cable into the corresponding pin ports, and complete the terminal assembly.

2 COM terminal structure introduction

3 Pass the cable through "nut-sealing claw-sealing-body-housing" in sequence.

5 Complete the terminal assembly.

6 Insert the terminal into the inverter.

A Battery power cables connection

10-18mm

B COM cables connection

Communicate the parallel Li-ion batteries via CAN protocol. Insert the communication cables into the RJ45 terminal in the correct order and crimp them.

Rj45 terminal

Note: Make sure the Li-Ion battery BMS port connects to the inverter is Pin to Pin.

Meter Connection

Inverter COM	Meter
SM_485A	5
SM_485B	6

1.SM-485B
2.SM-485A
3.CT1-1
4.CT1-2
5.CT2-1
6.CT2-2
7.DSP-Parallel-CANH
8.DSP-Parallel-CANL

9.ARM-Parallel-485B
10.ARM-Parallel-485A
11.DO1
12.DO_COM
13.DI1
14.DI_COM
15.RE-485B (PV INV)
16.RE-485A (PV INV)

1 Remove the waterproof lid from the Wi-Fi terminal.

2 Insert the Wi-Fi stick into the communication port. Slightly shake it by hand to determine whether it is installed firmly.

3 Build the connection between the inverter and router. Please refer to the Pocket Wi-Fi user manual to configure the WLAN.

Refer the APP guide manual delivered with the product or find it at our APP homepage 'guide' (please install 'My Livoltek' APP on your phone firstly). You can also find it at our official website www.livoltek.com > service > guide.

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

- Powering on the System**
- Step 1:** Power on the Grid;
Step 2: Power on the Battery;
Step 3: Switch on the loads;
Step 4: Configure the Wi-Fi stick;
Step 5: Observe the LED indicator.

Powering off the System

- Powering off the System**
- Step 1:** Turn off the loads;
Step 2: Turn off battery;
Step 3: Turn off the main grid switch;
Step 4: Wait for at least 5 minutes after the LED and graphical display black out for the internal circuits to discharge energy;
Step 5: Disconnect all the power cables;
Step 6: Disconnect all the communication cables, Remove the Wi-Fi stick.

C LED Display

Item	Indicator	Description
SYS	System indicator	System status
	COM	Communication indicator
SOC	Battery indicator 1	SOC 100%
	Battery indicator 2	SOC 80%
	Battery indicator 3	SOC 60%
	Battery indicator 4	SOC 40%
	Battery indicator 5	SOC <20%

'My Livoltek' is a platform to communicate with your device via Wi-Fi 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.



WARNING Before maintaining and commissioning the 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.