Version: V1.0



INSTALLATION GUIDE

PLPA-L1-10K2 Battery System and Deye Inverter

Table of Contents

1. Preparation Before Installation 2

1.1 Safety Requirements 2

1.2 PLPA-L1-10K2 PACK Accessories Check 2

1.3 Installation Tools and PPE Check 2

2. Physical View After Installation (for reference during installation) 3

Installation Environment Requirements 3

3. PACK-to-PCS Wiring Connection 3

3.1 Single-Unit Mode Connection 4

3.2 Parallel Mode Connection (two units as an example) 4

4. System Startup 5

4.1 System Power-On and Power-Off Sequence 5

4.2 Battery Settings in the Inverter 7

5. Common Faults and Troubleshooting 8

Appendix 8

1. Preparation Before Installation

1.1 Safety Requirements

- Installers must hold the relevant local electrical work qualifications.
- Make sure that there are no flammable or explosive materials at the installation site, and keep the area well ventilated.
- Wear personal protective equipment such as insulated gloves and safety goggles throughout the installation.
- Isolate before working: make sure the inverter is powered off before connecting or disconnecting any wiring.

1.2 PLPA-L1-10K2 PACK Accessories Check

Check that the following accessories are all present:



PLPA-L1-10K2 battery PACK (main unit) — 1 pc.



Grounding cable — 1 pc.



Ethernet cable — 1 pc.



Power cable (DC cable) — 1 pc.



Mounting screws — 2 pcs.

If any item is missing, please contact your supplier for a replacement.

1.3 Installation Tools and PPE Check

Required tools:

• Phillips / flat-head screwdriver

• Wrench (for M6–M10 bolts)

• Insulated pliers

• Multimeter (for voltage checks)

Personal protective equipment:

• Insulated gloves

• Safety goggles

• Safety footwear

2. Physical View After Installation (for reference during installation)

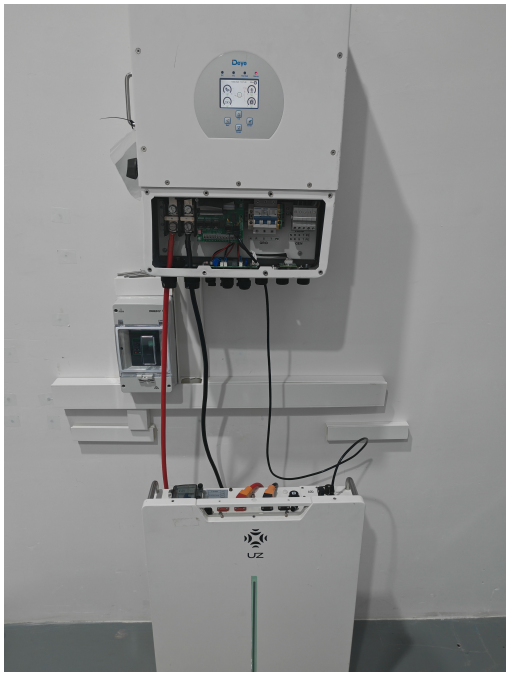


Photo of the installed system

Please refer to the “Installation Diagram” in the Appendix (not yet provided; it should be included in the actual delivery), which shows the standard installation layout.

Installation Environment Requirements

• The installation site must be dry, well ventilated and free of corrosive gases.

• Installing the unit under the eaves is recommended, to avoid direct sunlight and rain.

• Leave at least 30 cm of clearance around the unit for heat dissipation, and keep the bottom at least 10 cm above the floor.

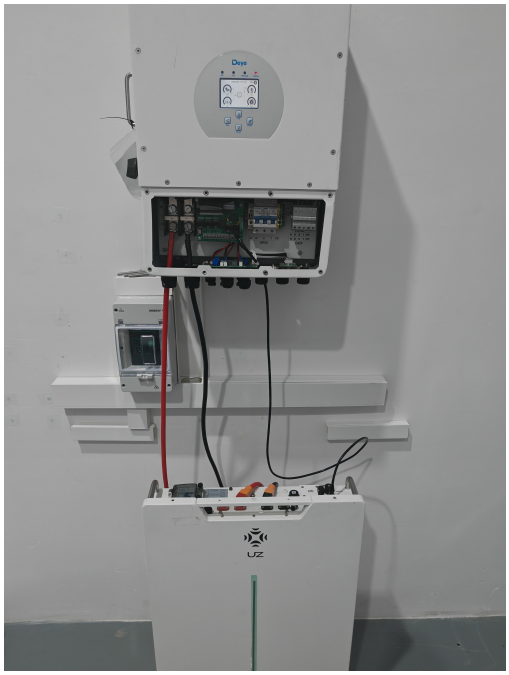
• Do not install the unit in areas with high temperature, high humidity or heavy dust.

3. PACK-to-PCS Wiring Connection

3.1 Single-Unit Mode Connection

Cable Type	Connection Description
Grounding cable	Connect the grounding terminal on the PACK enclosure to the building grounding system; the resistance must be ≤ 4 Ω.
Communication cable	Use an Ethernet cable to connect the PACK to the inverter communication port.
Power cable	Connect the positive and negative poles to the inverter DC input terminals (DC+ / DC−). Always verify the polarity.

NOTE	All connections must be tight to prevent poor contact caused by loose terminals.



Installation diagram

3.2 Parallel Mode Connection (two units as an example)

When several PACK units are to be operated in parallel, connect them as follows:

Cable Type	Connection Method
Grounding cable	Ground each PACK independently, with all units connected to a common grounding busbar.
Communication cable	Daisy-chain the PACK units and connect the chain to the master inverter.
Power cable	Combine the positive and negative poles of all PACK units, then connect them to the inverter DC input terminals.



Installation diagram

During parallel operation, all PACK units must be of the same model and software version, at the same voltage and with similar SOC, to avoid unbalanced operation.

4. System Startup

4.1 System Power-On and Power-Off Sequence

Power-on sequence:



1. Close the DC breaker on the PACK side.



2. Press the ON/OFF button on the side panel to ON.



3. Close the inverter DC input switch and press the inverter ON/OFF button.



4. Power up the inverter (AC-side supply).



5. Switch on the inverter control panel to start the system.

Power-off sequence (in reverse):

1. Switch off the inverter control panel.



2. Disconnect the inverter power supply (AC-side supply).



3. Open the inverter DC input switch and press the ON/OFF button.



4. Open the DC breaker on the PACK side.



5. Press the switch button on the side panel to OFF.

WARNING	Never connect or disconnect cables under load, and never cut off the power supply suddenly!

4.2 Battery Settings in the Inverter

Complete the following settings on the inverter local interface or the cloud platform:



Select the battery type.



Set the battery capacity (Ah).



Configure the charge/discharge current limits.

NOTE	Enter the capacity and the charge/discharge current limits according to the actual battery model.

5. Common Faults and Troubleshooting

The following problems may occur during initial operation; apply the corresponding solutions:

Fault Symptom	Possible Cause	Solution
PCS unable to start	1. Battery voltage too low	Check the battery voltage. If it is below 42 V, charge the battery from an external DC power supply at about 20 A until the voltage rises above 48 V.
	2. Communication fault	Unplug and reinsert the communication cable, then check the wiring.
	3. Protection function triggered	Check the PCS fault code and clear the corresponding fault.
Abnormal charge / discharge current	1. Current limit set too low	Adjust the PCS charge/discharge current limit parameters.
	2. Over-temperature protection	Improve heat dissipation and lower the ambient temperature.
	3. Poor battery consistency	Perform battery balancing.
Communication interruption	1. Network fault	Check the network connection and the router status.
	2. Poor contact of the communication cable	Reconnect the communication cable and check the shielding layer grounding.
	3. BMS fault	Restart the BMS, or contact the manufacturer for repair.

Appendix

• Appendix A: Product Specification

Notes:

• This product may be installed and commissioned by qualified personnel only. Do not disassemble it without authorization.

• Unauthorized modification of the circuit or replacement of core components is strictly prohibited.

DOCUMENT	Manufacturer: UZ Energy Ltd. | Version: V1.0 | Release date: November 2026 | www.uzenergy.com

Please keep this manual in a safe place for future reference.



Shenzhen UZ Energy Limited

Address: Floor 1, Building 1, ZhongYunTai Industry Park, Songbai Rd, Shiyan St, Bao'an District, Shenzhen, Guangdong, China

Tel: 86-755-88609397

E-mail: marketing@uzenergy.com

http://www.uzenergy.com