SORYQEX Battery Storage Co., Ltd.

10kWh Rack Mount Battery System

Installation Manual

5kW DC / 10kWh / Approx. 2 Hours at Rated Power / Wall / Floor Rack Cabinet

Product path: /10kwh-battery/
Install type: Rack-Mounted | Voltage class: —
Source hub: /installation-manuals/

1. Overview

SORYQEX 10kWh LiFePO4 home battery, 51.2V, wall or floor. Parallel up to 6 units after the inverter is confirmed.

Qualified personnel only. Follow local electrical codes. Confirm model, voltage, communication, breaker, cable size, and clearance for THIS exact product before installation.

2. Model Snapshot

Item	Value
Model	10kWh Rack Mount Battery System
Installation format	Rack-Mounted
Voltage class	—
Product page	/10kwh-battery/
Capacity / Power	5kW DC
Voltage / Chemistry	10kWh
Use Case	Approx. 2 Hours at Rated Power
Install / Format	Wall
Note	Floor Rack Cabinet

3. Before You Install

- Confirm the exact model name matches the packing label and datasheet
- Check installation space, wall/floor load capacity, and service clearance
- Confirm inverter / PCS compatibility (voltage, protocol, charge limits)
- Select breaker and cable size for this battery + inverter combination
- Check indoor/outdoor suitability and IP / enclosure rating for the site
- Prepare grounding, isolation, and emergency shutoff per local code

4. Installation Steps (General)

- Power down related AC/DC sources and verify zero energy where required
- Unpack and inspect for shipping damage; keep packing list for warranty
- Mount or place the unit per the stated format: Rack-Mounted
- Install protective earth / PE before energizing power circuits
- Connect DC / expansion / communication cables with correct polarity and torque
- Configure BMS / CAN / RS485 / WiFi settings to match the inverter protocol
- Power up in the sequence required by the host inverter / ESS controller
- Verify SOC, voltage, communication, and a low-load test before full operation

5. Wiring & Protection Checklist

- Do not size cables from a generic chart - use this model + inverter pair
- Keep DC polarity correct; reverse polarity can damage BMS / inverter
- Separate signal and power routing where required by the system design
- Use only approved connectors / expansion cables for parallel or host packs
- Never bypass BMS protection, fuses, or manufacturer interlocks

6. Notes From Product Page

- 10kWh LiFePO4 pack for home solar storage and backup. Wall and floor use the same battery. Electrical ratings are in the table below.
- Wall-Mounted / Floor-Mounted
- Installation is wall or floor. It is the same 51.2V pack either way, for indoor use.
- Smart BMS / Breaker / Fuse
- Choose this model when daily home backup needs about 10kWh. Wall and floor use the same pack, and the IP21 rating is for indoor installation.
- The hours below are 10kWh divided by the connected load. Keep each pack within the 5kW recommended power. Inverter losses are not included in this table.
- At 5kW, nameplate energy gives about 2 hours. Send the load list, inverter model, and backup target with the quote request.
- Inverter & Solar Compatibility
- Confirm the inverter before ordering. Do not match this pack by the 10kWh nameplate alone.
- The inverter must accept a 51.2V battery

7. Safety

- LiFePO4 systems still require electrical safety practice and fire-access clearance
- Do not open sealed packs, short terminals, crush, or expose to immersion
- Stop use if swelling, abnormal heat, odor, leakage, or persistent faults appear
- Follow transport and storage rules for lithium battery products

8. FAQ

Q: Is the wall pack a different battery from the floor pack?
A: No. Wall and floor are two ways to install the same 51.2V battery. The IP21 rating is for indoor use.

Q: How long does backup last?
A: Calculated time is 10kWh divided by the connected load. At 1kW that is about 10 hours. At 5kW that is about 2 hours. Inverter losses are not included.

Q: What load can this model run?
A: Keep the continuous load within the 5kW recommended power. The 15-second maximum is 7,500W.

Q: Can it work with my inverter?
A: The inverter must accept 51.2V, stay inside 48–57.6V DC, and use RS485 or CAN. Send the inverter model with the quote request.

Q: Is this a 48V battery?
A: Nominal voltage is 51.2V DC. Buyers looking for a 48V pack still need an inverter that accepts 51.2V nominal.

Q: Can the system be expanded?
A: Yes. Up to 6 units in parallel, from 10kWh to 60kWh. Series connection is not recommended. Confirm the inverter before paralleling.

Q: Should I buy this pack, the 5kWh model, or the 15kWh model?
A: Use the 5kWh model when about 5kWh is enough. Use this pack for about 10kWh. Use the 15kWh model, or parallel more than one of these units, when daily backup needs more than 10kWh.

9. Support

Download hub: /installation-manuals/
Compatibility check: /check-inverter-compatibility/
Quote / engineering: /get-a-quote/
Always confirm final breaker, cable, and protocol values on the latest datasheet for this model.