SORYQEX Battery Storage Co., Ltd.

60kWh Battery

Installation Manual

Rack-Mounted / CAN / RS485

Product path: /60kwh-battery/
Install type: Rack-Mounted | Voltage class: —
Source hub: /installation-manuals/

1. Overview

60kWh Battery — 614.4V high-voltage LiFePO4 for commercial backup, solar storage and critical-load support. SORYQEX HV Battery System.

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	60kWh Battery
Installation format	Rack-Mounted
Voltage class	—
Product page	/60kwh-battery/
Capacity / Power	Rack-Mounted
Voltage / Chemistry	CAN
Use Case	RS485

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

- High Voltage Battery System

- SORYQEX 60kWh High Voltage Battery System
- PCS / BMS configuration
- Capacity confirmed with system design
- This high-voltage rack system must be matched with the PCS, BMS, protection devices and site electrical design before expansion.
- Conditional — Verify surge current and PCS capacity
- Shows voltage, communication and PCS match points with the inverter.
- High-voltage battery-compatible PCS or hybrid inverter
- Through a compatible inverter or PCS configuration
- This is not a 48V battery system. Before ordering, provide the inverter model and site voltage to confirm system compatibility.

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: What affects the 60kWh battery price?

A: The 60kWh battery price depends on battery configuration, BMS, rack structure, PCS requirements, shipping destination, and project installation scope.

Q: What affects the 60kWh battery pack price?

A: The 60kWh battery pack price depends on the cell configuration, usable capacity, protection components, communication requirements, and included battery system equipment.

Q: Can a 60kWh solar battery work with an existing solar system?

A: Yes, if the existing inverter or PCS supports the battery voltage, communication protocol, and charging requirements. Inverter model verification is required before connection.

Q: How long does a 60kWh battery last?

A: The battery has 55.30kWh of specified usable energy. Actual backup time depends on the critical loads, inverter efficiency, operating limits, and load schedule. Send the load list for a project-specific runtime check.

Q: Can the 60kWh battery support commercial equipment?

A: Yes, with a correctly sized PCS. Lighting, office equipment, refrigeration, pumps, and selected production equipment require separate running-power and startup-power checks.

Q: Can the 60kWh battery system be expanded?

A: Expansion requires confirmation of battery rack configuration, BMS compatibility, voltage limits, and PCS capacity. The maximum supported expansion has not yet been verified.

Q: Can this battery be installed outdoors?

A: Not as an exposed IP20 installation. IP20 provides no water ingress protection. An outdoor project requires a separately engineered protective enclosure and suitable environmental controls.

Q: What should buyers provide before quotation?

A: Send the critical load list, site voltage, inverter model, solar system capacity, backup target, installation location, and required battery quantity.

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.