SORYQEX Battery Storage Co., Ltd.

500kWh Battery Energy Storage System

Installation Manual

Production Sites / Industrial Facilities / Microgrids / 250kW / 2 hours at full load / Outdoor C&I Energy Storage Cabinet

Product path: /get-a-quote/
Install type: Commercial BESS | Voltage class: —
Source hub: /installation-manuals/

1. Overview

This installation manual covers the SORYQEX 500kWh Battery Energy Storage System. Use it with the matching product page, datasheet, and inverter compatibility check before wiring.

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	500kWh Battery Energy Storage System
Installation format	Commercial BESS
Voltage class	—
Product page	/get-a-quote/
Capacity / Power	Production Sites
Voltage / Chemistry	Industrial Facilities
Use Case	Microgrids
Install / Format	250kW
Note	2 hours at full load
Extra	Outdoor C&I Energy Storage 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: Commercial BESS
- 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

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

- Can I install outdoors? Only if this exact model is approved for outdoor use.
- Can I wall-mount it? Only if the install format supports wall mounting and the wall meets load requirements.
- Can I expand later? Only if the host/BMS supports parallel expansion for this model family.

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.