SORYQEX Battery Storage Co., Ltd.

100kWh Battery Storage System

Installation Manual

Factories, warehouses, commercial buildings, solar storage projects, and peak shaving applications / 50kW / 2 hours / Outdoor Cabinet

Product path: /industrial-battery-storage/
Install type: Commercial BESS | Voltage class: —
Source hub: /installation-manuals/

1. Overview

Industrial Battery Storage systems from 50kWh to 215kWh for factories, warehouses, industrial parks, solar storage, peak shaving, and backup power.

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	100kWh Battery Storage System
Installation format	Commercial BESS
Voltage class	—
Product page	/industrial-battery-storage/
Capacity / Power	Factories, warehouses, commercial buildings, solar storage projects, and peak shaving applications
Voltage / Chemistry	50kW
Use Case	2 hours
Install / Format	Outdoor Cabinet
Backup Time	2 hours

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

6. Notes From Product Page

- Show outdoor cabinet placement, cable routing, site connection, and commissioning steps.
- Monitors battery voltage, current, and temperature
- Rack-mounted room or outdoor cabinet location
- AC voltage and wiring conditions
- PV capacity and PCS configuration
- AC/DC cable entry and site wiring
- Voltage, current, and temperature
- Installation & Protection
- Drainage / Installation
- BMS / protection system

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 size industrial battery storage system do I need?
A: Check your load power, backup time, solar capacity, and installation site before choosing a system.

Q: What is the backup time of a 100kWh Battery Storage System?
A: Backup Time: 2 hours

Q: What is the backup time of a 215kWh Battery Storage System?
A: Backup Time: 2.15 hours

Q: Can industrial battery storage be used with solar power?
A: Yes. It can be used for industrial solar battery storage when matched with the project's PV capacity, PCS, and EMS.

Q: Can the system be installed outdoors?
A: The 100kWh Battery Storage System and 215kWh Battery Storage System are outdoor cabinet systems. The 50kWh and 60kWh systems are rack-mounted systems.

Q: What information is needed for a quote?
A: Send your application, load power, backup time, solar capacity, installation site, country, and contact information.

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.