SORYQEX Battery Storage Co., Ltd.

100kWh Battery

Installation Manual

100kWh / 358.4V DC / Floor-standing Cabinet

Product path: /100kwh-battery/
Install type: Outdoor Cabinet | Voltage class: —
Source hub: /installation-manuals/

1. Overview

SORYQEX 100kWh Battery C&I ESS cabinet for commercial backup, solar storage and peak shaving. 50kW output, LiFePO4, IP54. Request project pricing.

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
Installation format	Outdoor Cabinet
Voltage class	—
Product page	/100kwh-battery/
Capacity / Power	100kWh
Voltage / Chemistry	358.4V DC
Use Case	Floor-standing 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: Outdoor Cabinet
- 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

- Floor-standing Cabinet

- This cabinet-level C&I BESS is built for commercial sites. The key check is whether the cabinet matches your load list, site voltage, PV design, and backup target.
- Size the system from the critical load list, not from nameplate capacity alone.
- Conditional - Do not size by capacity alone
- Inverter & Solar Compatibility
- Match this C&I cabinet to the site's three-phase voltage, PV array, and backup mode before quotation. The PCS is built in, so solar input and AC output are checked as one system.
- Can It Be Installed and Expanded?
- Installation and protection parameters for this model.
- Drainage / Installation
- Ground-mounted outdoor cabinet

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 project pricing for a 100kWh Battery?

A: Final price depends on cabinet configuration, PCS / inverter setup, PV input design, fire protection, shipping, installation scope, grid connection requirements, and backup output design.

Q: What drives pack and cabinet cost?

A: Cost is affected by battery chemistry, cabinet structure, safety system, cooling, certification, communication setup, and whether the project needs integrated solar charging or backup switching.

Q: Is a 100 kWh solar storage cabinet suitable for commercial projects?

A: Yes, when PV input, AC output, site voltage, and backup loads are matched correctly for the commercial solar design.

Q: How long will backup last?

A: Runtime depends on the actual load list. A site running 20kW critical loads lasts much longer than a site running 50kW continuous loads, so backup time should be confirmed from the customer's load schedule.

Q: What should buyers provide before quotation?

A: Send the load list, site voltage, PV system size, backup target, installation location, grid connection type, and whether the project needs critical-load backup, peak shaving, or solar self-consumption.

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.