SORYQEX Battery Storage Co., Ltd.

30kWh Battery

Installation Manual

30.72kWh / 51.2V DC / 19-inch Rack-Mounted / CAN2.0 / RS485

Product path: /30kwh-battery/
Install type: Rack-Mounted | Voltage class: Low Voltage
Source hub: /installation-manuals/

1. Overview

30kWh Battery — 51.2V 600Ah LiFePO4 for solar backup, large home storage and small business projects. SORYQEX LV battery pack.

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	30kWh Battery
Installation format	Rack-Mounted
Voltage class	Low Voltage
Product page	/30kwh-battery/
Capacity / Power	30.72kWh
Voltage / Chemistry	51.2V DC
Use Case	19-inch Rack-Mounted
Install / Format	CAN2.0
Note	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

- 30.72kWh · 19-inch Rack-Mounted
- The 19-inch rack-mounted pack suits larger storage banks; connect up to 12 units in parallel when the project needs more capacity.
- Shows which loads this pack can support with a matched inverter.
- Shows voltage, communication and power match points with the inverter.
- Battery voltage range
- Installation, Protection & Expansion
- Installation and protection parameters for this model.
- Drainage / Installation
- BMS / protection system
- Parallel Expansion Capacity

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 this a 30kWh LiFePO4 pack?
A: Yes. Nameplate energy is 30.72kWh with LiFePO4 chemistry.

Q: Is the voltage 48V or 51.2V?
A: Nominal voltage is 51.2V DC for 48V-class low-voltage inverter systems, with a 46–56V operating range.

Q: What capacity and communication does it use?
A: Rated capacity is 600Ah. Communication is CAN2.0 / RS485.

Q: How should backup runtime be estimated?
A: Use 30.72kWh ÷ connected load as a nominal battery-side estimate, then confirm inverter limits and load schedule.

Q: What loads can it support?
A: Selected home and light commercial loads when inverter size, startup current and total power stay within system limits.

Q: Can it work with my inverter?
A: It works with compatible low-voltage hybrid inverters that support 51.2V platforms, the 46–56V range and CAN2.0 / RS485.

Q: Can the system be expanded?
A: Yes. Parallel support is up to 12 units, subject to inverter and system design.

Q: Is outdoor installation possible?
A: IP65 protection supports protected outdoor or utility-room placement when mounting, ventilation and cable routing are planned correctly.

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.