SORYQEX Battery Storage Co., Ltd.

1kWh Expansion Battery

User Manual & Installation Guide

Extra battery pack for compatible portable power stations and home backup hosts. Adds stored energy and runtime — does not increase host output watts.



Document source: http://localhost:10016/expansion-battery/
Model focus: 1kWh Expansion Battery (1.024kWh)
Brand color system: #19487C / #DD183B

1. Product Overview

An Expansion Battery is an extra battery you add to a compatible SORYQEX power station or backup host when the built-in battery runs out too soon. It stores more energy so phones, lights, coolers, or home essentials keep running longer.

Important: The pack does NOT raise the host's output power by itself. Watts still come from the main unit. Extra capacity only extends runtime.

1.1 This Manual Covers

- 1kWh Expansion Battery (nominal capacity 1.024kWh)
- Host compatibility and expansion limits
- Connection styles and basic installation checks
- Example runtime and safety / FAQ notes from the product page

1.2 Intended Use

Best for short trips and light loads. Connection style on the product page: Carry-together (portable) — a second battery case beside the station, linked by one expansion cable.

2. Key Specifications (1kWh Model)

Item	Specification
Model	1kWh Expansion Battery
Capacity	1.024kWh
Host output limit (reference)	Up to 2.2kW from the host (pack does not add watts)
Best for	Short trips & light loads
Connection style	Carry-together (portable)
Rated voltage	51.2V DC
IP rating	IP65
Installation / drainage note	External Expansion Battery Connection
Protection	Built-in BMS
Example runtime	About 5 h at 200W · 2 h at 500W · 1 h at 1kW

3. Compatible Main Units

These add-on packs work with selected SORYQEX portable power stations and backup hosts. Your host needs an expansion port and must support the pack size. If your model is not listed, send the model name before you buy.

Item	Specification
1000W Portable Power Station	Recommended add-on: 1kWh pack · Confirm expansion port + matching cable
1500W Portable Power Station	Recommended add-on: 1–2kWh pack · Confirm expansion port + max capacity limit
2000W Portable Power Station	Recommended add-on: 1–3kWh pack · Confirm expansion port + cable type

3000W Portable Power Station	Recommended add-on: 2–5kWh pack · Confirm how many packs the host allows
4000W Portable Power Station	Recommended add-on: 3–5kWh pack · Confirm max capacity + host output limit
Home backup host with expansion port	Recommended add-on: 3–5kWh pack · Exact model match on the datasheet

For the 1kWh pack specifically, the strongest page match is the 1000W host (1kWh pack) and smaller portable hosts that accept 1–2kWh / 1–3kWh add-ons.

4. Capacity & Runtime

A larger pack stores more energy, so devices run longer. The host still sets how many watts you can draw at once — the pack does not raise output power by itself.

4.1 1kWh Example Runtime

- About 5 hours at 200W
- About 2 hours at 500W
- About 1 hour at 1kW

Runtime is an estimate. Real time depends on load power, usable capacity, cable losses, temperature, and host settings.

5. Connection Options

Pick the connection style that matches how you move and place the system. All styles need the matching expansion cable or port on your host.

Item	Specification
Carry-together pack	Second battery case beside the station, linked by one cable — camping / worksite
Stack-on-top pack	Pack sits on or under the host like stacked blocks — small footprint
Side pack	Larger battery box next to the host — longer home backup, stays in place
Cable-linked pack	Host and pack stay separate, joined only by the expansion cable

The 1kWh Expansion Battery is presented on the site as a carry-together (portable) pack for short trips and light loads.

6. Expansion Limits

Do not add packs past what the host allows. Check these limits first so the host can recognize and charge the pack safely.

- Max capacity the host accepts — if the pack is too large, the host may not charge it
- How many packs the host allows — some hosts take one pack only; others take two or more

- Required cable type — the wrong cable can stop the host and pack from talking
- Host output limit — extra capacity does not increase watts
- Same battery model family — mixing unrelated models on one host may not work

7. Installation & Protection Checks

Before first use, confirm the following using the product page installation table and your host datasheet:

- Host model supports expansion and lists 1kWh / 1.024kWh as an accepted pack
- Expansion port and cable type match the host
- Pack rated voltage 51.2V DC matches the host expansion requirement
- Installation is an external expansion battery connection
- Built-in BMS remains enabled; do not bypass protection
- IP65 rating applies to the pack enclosure — still keep connectors dry and clean
- Place the pack on a stable, ventilated surface; do not block vents on host or pack

7.1 Basic Connection Steps

- Power off the host AC output and follow the host manual shutdown sequence
- Inspect expansion ports and cable for damage or debris
- Connect the matching expansion cable firmly between host and 1kWh pack
- Power on the host and confirm the pack is recognized (SOC / pack icon / BMS status)
- Run a low load first, then increase toward your planned use case

8. Safety Notes

- Use only with compatible SORYQEX hosts and the matching expansion cable
- Do not attempt to raise host watts by adding packs — capacity only extends runtime
- Do not short-circuit, crush, open, or modify the battery pack
- Keep away from fire, water immersion, and extreme heat
- If the pack or cable smells, swells, overheats, or errors, stop use and contact support
- Follow local transport and storage rules for LiFePO4 battery products

9. FAQ (from product page)

Q: Can I add a pack to any power station?

A: No. It must match a supported host on the Expansion Battery page (or your datasheet), plus the same expansion port and cable.

Q: Does the pack increase output power (watts)?

A: No. It only adds stored energy and longer runtime. How many watts you can draw still follows the host.

Q: What is the difference between an Expansion Battery and an expansion pack?

A: Same idea: an extra battery module for a compatible host. What matters is model match, port, and capacity limit.

Q: Is a side pack portable?

A: Smaller carry-together packs are easy to move. Larger side packs are built for longer backup and stay with the host. Check weight and connection style.

Q: How do I choose the right capacity?

A: Match your load and how many hours you need. Use the runtime examples (200W / 500W / 1kW), then confirm the host's max capacity.

Q: Can I add a pack later?

A: Yes, if the host supports expansion. Confirm supported models, max capacity, and cable type before you buy.

10. Support & Documents

Product page: /expansion-battery/
Related downloads on site: Expansion Battery Datasheet, Installation Guide, Certificate Pack Overview.
For model matching or a custom configuration, contact SORYQEX sales / engineering.

This PDF was generated from the live site content for the 1kWh Expansion Battery listing and shared Expansion Battery hub copy. Always confirm final host limits on the latest datasheet before installation.