



Greenrich U-P8000

Lithium Battery

User Manual



Document: GR-UP8000

Version: 0.2

Audience: Licensed electrical installers and commissioning engineers only

About This Manual

Purpose

This manual describes the assembly, installation, operation, maintenance, and troubleshooting of the U-P8000 Lithium Battery unit. Ensure you read this manual carefully before installation and operation.

Scope

Safety and installation instructions, tools, wiring, commissioning, and routine maintenance for the U-P8000 battery system.

Target Group

Trained and qualified persons only (know LiFePO₄ batteries, inverters, standards, hazards, and this product). End-users may do non-electrical tasks only if stated.

Symbol Definitions

The following symbols may be used in this manual or on the product. It is crucial to understand their meaning to ensure safe installation and operation.

 DANGER:	Hazardous situation that will result in death or serious injury if not avoided.
 WARNING	Hazardous situation that could result in death or serious injury if not avoided.
 CAUTION:	Hazardous situation that could result in minor/moderate injury or equipment damage if not avoided.
NOTICE:	Important practices for correct operation or to avoid equipment damage (not personal injury).
NOTE:	Additional information or tips.

Abbreviations

- **BMS:** Battery Management System
- **SOC:** State of Charge
- **DOD:** Depth of Discharge
- **PPE:** Personal Protective Equipment
- **SELV:** Safety Extra Low Voltage
- **LFP:** Lithium Iron Phosphate (LiFePO₄)
- **CC/CV/CP:** Constant Current / Constant Voltage / Constant Power
- **RH:** Relative Humidity
- **ADDR:** Address (for DIP Switch)
- **CAN:** Controller Area Network
- **RS485:** Recommended Standard 485 (Serial Communication)
- **RS232:** Recommended Standard 232 (Serial Communication)

DISCLAIMER

Read this manual carefully (especially safety instructions, warnings, terms of use, and disclaimers) before use. Users are solely responsible for losses from failure to follow the manual. Final interpretation rights belong to the company. Document subject to revision without notice.

The UP8000 uses LiFePO₄ chemistry with advanced BMS for enhanced safety, but all lithium systems store significant energy and pose risks if mishandled. Manufacturer assumes no responsibility for damages/injuries from: failure to follow instructions; unauthorized modifications/repairs; improper installation/commissioning/operation/maintenance; non-compliance with local codes/standards; use outside specified parameters; or external factors (natural disasters, surges, incompatible equipment). Strict adherence is required for safe operation.

1. SAFETY INSTRUCTIONS

⚠ DANGER: HIGH ENERGY: Can cause shock, fire, explosion or hazardous release → death/serious injury.

- Only qualified/authorized personnel.
- No user-serviceable parts. Never open/modify/repair (voids warranty, risk of failure). Contact authorized service.
- De-energize completely before work: Disconnect all sources (inverter, grid, PV, other batteries). Verify zero voltage with calibrated multimeter. Use Lockout/Tagout (LOTO).

1.1 GENERAL PRECAUTIONS

- Read and understand everything. Ask supplier if unclear.
- Fire: Keep Class D (metal/lithium) + ABC or CO₂ extinguishers ready. NEVER use water on battery fire.
- No smoking, sparks, open flames.
- Good ventilation (heat & any off-gassing).
- Damaged cells may leak electrolyte — avoid contact (see Emergency).

1.2 ELECTRICAL SAFETY

⚠ WARNING - LETHAL VOLTAGES

- Power off and verify zero energy before work.
- Short-circuit risk critical: High currents → arcing/fire/explosion/burns. Remove jewelry/metal. Use insulated tools only. Never bridge terminals.
- PPE: Voltage-rated gloves (Class 0+), safety glasses/face shield, insulated shoes, FR clothing if required.
- Correct polarity always (reverse damages equipment and risks fire). Double-check.
- Never work alone on high-energy systems. Have second trained person ready.

1.3 HANDLING AND INSTALLATION

⚠ CAUTION — Weight ~67 kg. Use proper lifting (2+ persons or mechanical aids). Avoid drop/crush/puncture/dent.

- Inspect for damage before install. Quarantine damaged units safely; contact supplier. Do not use.
- Secure mount on strong, stable surface. Prevent tip/fall/vibration. Manage cables (no trip hazards).

1.4 STORAGE SAFETY

- Dry, cool, ventilated indoor. Away from sun, heat, corrosives.
- Temp: -20~+45°C (short); optimal -20~+25°C (long >1 year).
- SOC: 40–60% (≤3 months); 60–80% (>3 months). Recharge to 60–80% every 6 months (document dates). Failure may void warranty.
- No water/moisture/high humidity. No stacking heavy objects. Prefer original packaging.

1.5 EMERGENCY PROCEDURES

- Electrolyte leak (rare): Avoid contact. Skin: Rinse 15+ min water, remove clothes, medical if needed. Eyes: Flush 15+ min, immediate medical. Inhalation: Fresh air, medical if needed.
- Damaged battery (swell/leak/odor/deform): Isolate. Do not use/charge/move (unless urgent safety)/repair. Power down/disconnect if safe. Contact supplier or hazmat.

- Fire: Evacuate first. Call emergency services (tell them lithium battery). If trained & safe: Class D / large ABC dry chemical / CO₂. No water/foam/sand. Disconnect external power if safe. Ventilate after only if safe.

1.6 BATTERY DISPOSAL

NOTICE: Do not put in household waste. Recycle via authorized LiFePO₄ facility per local/national laws. Contact authorities/supplier. Keep records.

2. PRODUCT OVERVIEW

2.1 BRIEF INTRODUCTION

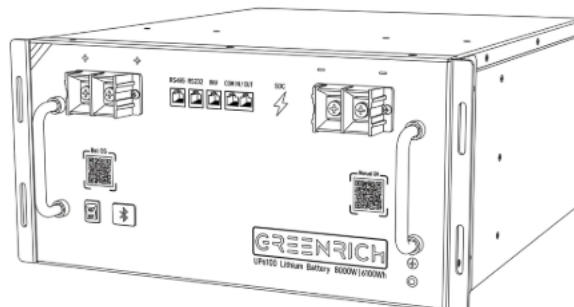
U-P8000 is a LiFePO₄ energy storage unit for backup, solar, etc. Expandable by parallel (up to 63 units). Advanced BMS for protection.

2.2 TECHNICAL SPECIFICATIONS

2.2.1 GENERAL PARAMETERS

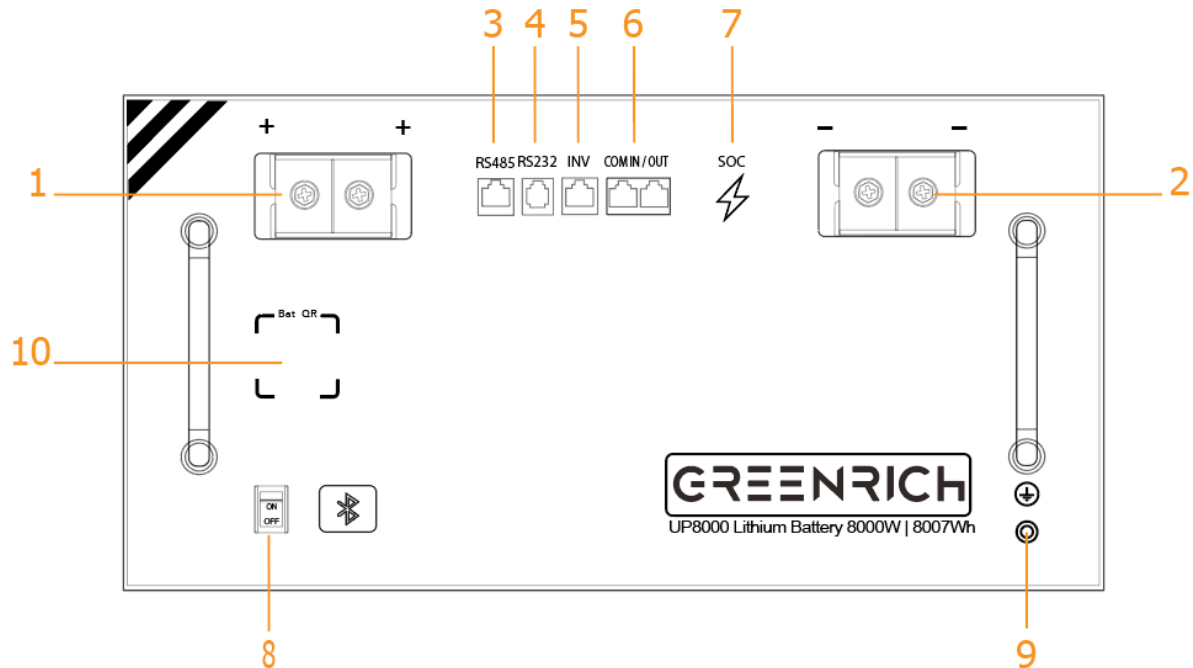
Parameter	Value
Model	U-P8000
Performance	
Rated Power	9000W
Nominal Voltage	51.2V DC
Nominal Capacity (Energy)	8007Wh
Charge Mode	CC/CV/CP
Max. Charge Current	100A
Charge Cut-off Voltage	58.4V
Discharge Mode	CC/CP
Discharge Cut-off Voltage	40V
Max. Discharge Current	170A
Peak Discharge Current	200A (500ms)
General Specification	
Dimension W x D x H	480*545*220mm
Net Weight	67 kg
Operating Temperature	Charging : -10~+50°C / Discharging : -20~+60°C
Storage Temperature	-20~+45°C(three months) / -20~+25°C (one year)
Humidity	10% to 85% RH (non-condensing)
Life Cycle	10 years warranty, 6000 Cycles
Parallel Capability	Up to 63 units

2.2.2 DIMENSIONS AND WEIGHT



- **Dimensions:** ~480mm x 545mm x 220mm
- **Net Weight:** 67kg

2.3 INTERFACE DESCRIPT

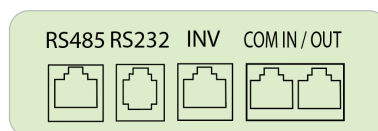
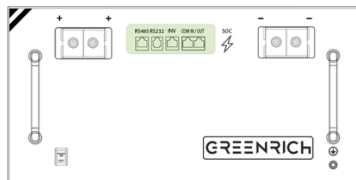


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2.3.1 FRONT PANEL OVERVIEW

Item	Name	Definition
1	Positive Terminal	Battery power output positive or parallel connection positive line.
2	Negative Terminal	Battery power output negative or parallel connection negative line.
3	RS485	RS485 communication port for communication with the inverter.
4	RS232 Port	RS232 Communication port
5	INV	CAN communication ports for communication with the inverter.
6	COM IN/OUT	Communication ports for parallel batteries
7	SOC LEDs	Status of Charge indicators (See Section 5.2 for details).
8	Power Switch (ON/OFF)	Main power switch for the battery unit
9	Ground Terminal	Grounding connection point.
10	Bat QR	Device QR code for adding

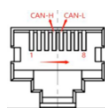
2.3.2 Communication Port



INV port – CAN port to inverter

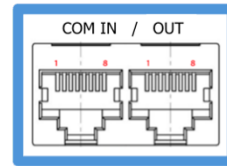
RJ45 in 8P8C stand type

Pin (CAN)	Description
2	GND
4	CANH
5	CANL
1、3、6、7、8	NC



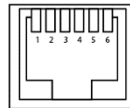
COM IN/OUT RS485 inter-battery communication ports

Pin (CAN)	Description	Pin (RS485)	Description
1, 8	RS485-B	9, 16	RS485-B1
2, 7	RS485-A	10, 15	RS485-A1
3, 6	GND	11, 14	GND
4	GND	12	GND
5	DN_OP+	13	UP_IN



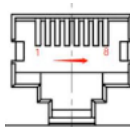
RS232

Pin	Description
1, 2, 6	NC
3	TX
4	RX
5	GND



RS485

Pin (RS485)	Description
1 \ 8	RS485-B1
2 \ 7	RS485-A1
3 \ 6	GND
4 \ 5	NC



2.4 BMS PROTECTIONS

- Voltage: Over-charge stop + recovery; Under-discharge disconnect + recovery.
- Current: Over-charge/discharge stop (delay or condition clear).
- Temperature: Over/under for charge & discharge — stop until recovery.
- Short-circuit: Opens path; clear short + possible reset/recharge.
- Dormancy/sleep: Low power if no load/charge/comms for long time.

NOTICE: BMS helps under normal conditions but is not a substitute for correct install, limits, and maintenance.

3. RECEIVING & HANDLING

3.1 PRE-UNPACKING INSPECTION

The packaging is engineered to protect the modules during transport. On receipt and prior to unpacking, conduct a visual inspection of the outer packaging.

NOTICE:

Inspect the outer packaging for holes, cracks, water staining, impact damage, and the integrity of the shock/tilt indicators where fitted. If damage is found, do **not** unpack — photograph the packaging, retain all transport documentation, and contact the supplier.

After unpacking, verify that the contents match the bill of materials and that no item is mechanically damaged. Retain the original packaging for the duration of the warranty period for safe return shipment.

3.2 MATERIAL LIST

No.	Item	Q'ty (pcs)	Note
1	Battery U-P8000	1	
2	Power Cable - Positive	1	Orange, 3 AGW, 250mm length, with SC25-8 terminals on both ends
3	Power Cable - Negative	1	Black, 3 AGW, 250mm length, with SC25-8 terminals on both ends
4	Ground Wire	1	Yellow-Green, 250mm length

5	Communication Cable	1	250mm length, with RJ45 8P8C connectors on both ends
6	Screw	1	M5×8 Hex Head Phillips Screw

NOTICE:

Modules ship SOC-matched within a production batch. Do not mix modules from different shipments or batches in a single string.

⚠ CAUTION: Store unused modules in a clean, dry, temperature-controlled area and on a horizontal surface. Do not stack beyond the limit indicated on the packaging.

4. INSTALLATION

⚠ DANGER: Qualified personnel only. De-energize & LOTO all sources first. Failure → damage, fire, shock, injury.

4.1 SAFETY & PREP REQUIREMENT

- Comply with all local codes/building regs.
 - Compatible inverter only (48/51.2 V LiFePO₄, supporting CAN/RS485 if used).
 - Cables sized for max system current + code + voltage drop. Protect against damage.
 - Space for ventilation + access. Rack/cabinet (if used) must support total weight, be level, grounded, code-compliant (seismic if required).
- Installer fully responsible for system design, components, methods, and compliance. Non-compliance voids warranty.

TOOLS

The following tools are required to install the battery pack:



SAFETY GEAR

⚠ CAUTION:

Use properly insulated tools to prevent accidental electric shock or short circuits.



4.2 UNPACKING & INSPECTION

The packaging is engineered to protect the modules during transport. On receipt and prior to unpacking, conduct a visual inspection of the outer packaging.

NOTICE: Inspect the outer packaging for holes, cracks, water staining, impact damage, and the integrity of the shock/tilt indicators where fitted. If damage is found, do **not** unpack — photograph the packaging, retain all transport documentation, and contact the supplier. After unpacking, verify that the contents match the bill of materials and that no item is mechanically damaged. Retain the original packaging for the duration of the warranty period for safe return shipment.

4.3 INSTALLATION ENVIRONMENT

3.2.1 ENVIRONMENTAL REQUIREMENTS

- **Temperature:** Prefer 15–30°C ambient. Operating as per specs.
- **Humidity:** Non-condensing within range.
- **Altitude:** ≤4000m above sea level.
- **Ventilation:** Ensure adequate airflow around the battery to prevent overheating.
- **Surface:** Flat, level, strong enough for weight.
Avoid: Direct sun, rain/snow/moisture, flammable/explosive materials/gases, flood-prone, dusty/corrosive, near sea (unless enclosed), flammable wall/floor without fire-resistant protection. Indoor only.

4.4 MECHANICAL INSTALLATION

⚠ **WARNING:** Indoor. ≥2 competent persons for handling.

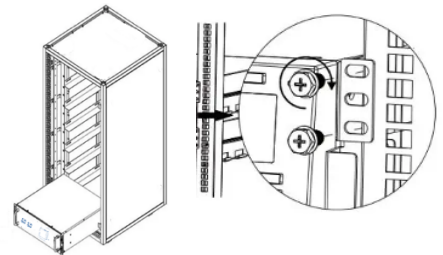
SITE AND RACK PREPARATION

The system is supplied without racks. The installer is responsible for providing racks that satisfy the local structural and seismic code, are level within manufacturer tolerance, and are mechanically rated for the total populated.

SECURING MODULES

Each module shall be secured to the rack rails.

Tighten screws to the rack manufacturer's specified torque. Cross-tighten in a diagonal pattern to ensure even load distribution on the mounting flange.



4.5 ELECTRICAL INSTALLATION

⚠ **DANGER:**

- **Verify De-energization:** Before making any connections, use a multimeter to confirm that all power sources (grid, PV, other batteries, inverter) are completely OFF and locked out. Verify that there is no voltage present on any conductors or terminals you will be working with.
- **Correct Polarity:** Double-check all connections for correct polarity. Reversed polarity can cause severe damage to the battery, busbars, inverter, and other equipment, and may create a fire or explosion hazard.
- **Proper Torque:** Tighten all terminal connections (battery plugs, OT ring terminals to busbars, busbar to inverter connections, ground terminals) to the manufacturer's recommended torque.

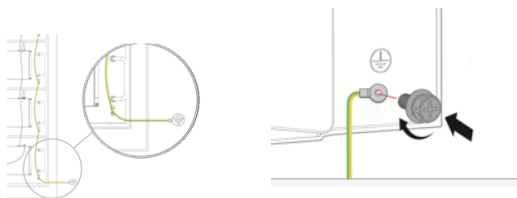
NOTICE: The cable specifications and connection methods described herein are for the U-P8000 unit itself. The installer is responsible for correctly sizing, protecting, and installing all external cabling (e.g., from busbars to inverter) and circuit protection devices according to the total system current, voltage drop considerations, and all relevant electrical codes.

⚠ WARNING: Prevent shorts (insulated tools). Handle connectors carefully — fully seat, do not force.

4.5.1 GROUNDING

Procedure:

1. **Connect supplied PE lead to battery PE terminal and rack/building earth bar.**
2. **Tighten firmly.**
3. Verify low-resistance continuity from enclosure(s) to earth with ohmmeter **before any DC power.**



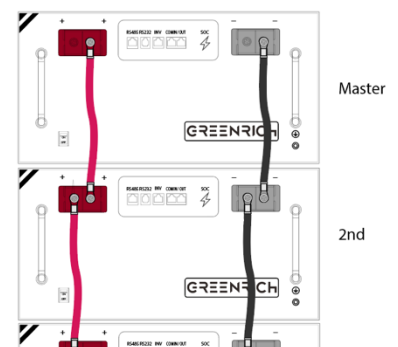
NOTICE: Verify electrical continuity from each module enclosure and the HVCB enclosure to the building earth bar with a low-resistance ohmmeter prior to applying any DC connection.

4.5.2 PARALLEL POWER CONNECTION

The battery modules are connected in parallel using the supplied inter-module power cables

Procedure:

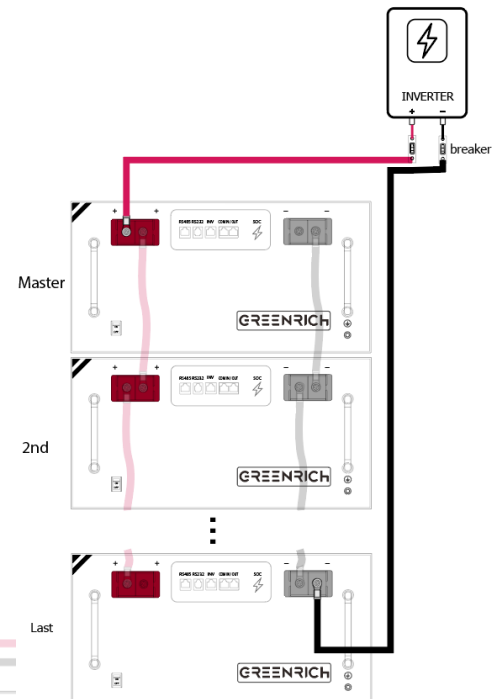
1. **All Power Switch Off.**
2. Use supplied short inter-module cables (or properly sized).
Working top-to-bottom or logical order: + of one to + of next; – to –.
3. Tighten to torque.
4. Repeat through every module in the string.



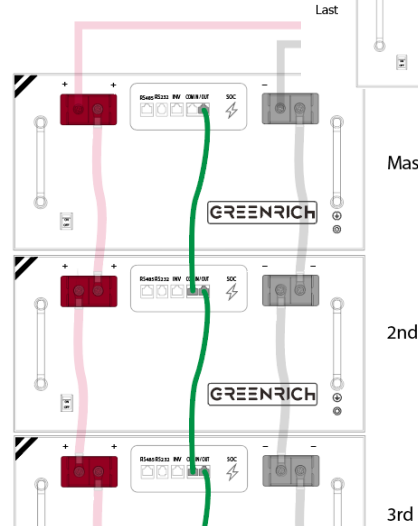
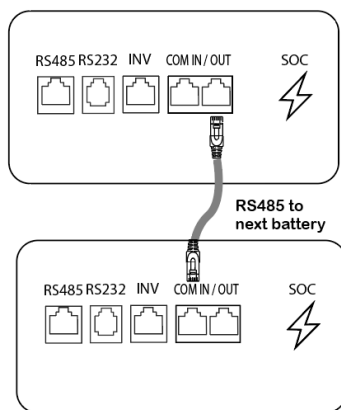
POWER CABLE - MASTER BATTERY TO PCS

Connect Positive and negative port of the master battery to the inverter DC input. The cable between the HVCB and the PCS is **not supplied** with the system.

For installations of two or more batteries, distribute the bus connection points across the first and last battery rather than terminating both PCS bus cables on a single battery. This reduces conductor IR imbalance and improves SOC tracking across the parallel array.



4.5.3 INTER-BATTERY COMMUNICATION



Communication between parallel U-P8000 battery units is established by daisy-chaining them using their dedicated inter-battery COM IN/OUT (RS485) communication ports.

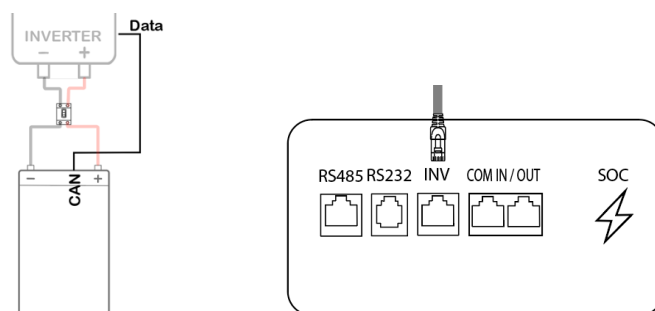
The bus carries cell voltage, temperature, and protection telemetry from every BMU to the Master battery.

Master COM OUT → next COM IN → ... → last

The first (master) battery and the last battery in the chain will have one free port.

4.5.4 COMMUNICATION TO THE INVERTER

From Master battery INV port (CAN) to inverter corresponding port.

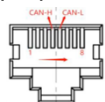


RJ45 in 8P8C stand type

Pin (CAN)	Description
2	GND
4	CANH
5	CANL
1、3、6、7、8	NC

NOTICE:

- Ensure all communication cables are run separately from high-current DC power cables where possible, or shielded appropriately, to minimize electromagnetic interference (EMI).
- Refer to inverter P8000 compatible,



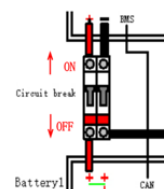
manual for type, protocol, settings (battery type = LiFePO₄ / U-baud, etc.).

4.5.5 EXTERNAL DC

CIRCUIT BREAKER (MANDATORY)

Install DC-rated breaker between battery bus and inverter.

- Voltage rating > max system (recommend ≥ 75 V DC or higher).
- Current: Sized for total max continuous charge/discharge + cable ampacity + code.
- Adequate interrupting capacity for battery fault current.
- Accessible location. Prefer positive line (negative also if required). Follow breaker instructions.



5. COMMISSIONING

⚠ WARNING: Energizing step. Watch for sparks/smoke/smell/errors → immediately power down (battery switches + external breaker) and investigate.

5.1 PRE-POWER-ON CHECKLIST

Before powering on the system for the first time:

1. **Visual Inspection:** Double-check all mechanical installations are secure.
2. **Wiring Checks:**
 - Verify all power cable connections for correct polarity.
 - Confirm all power and grounding terminals are tightened to the specified torque.
 - Ensure all communication cables are correctly connected and secured.
3. **External Breaker:** Ensure the external DC breaker **OFF**.
4. **Inverter Status:** Ensure the inverter is initially OFF or in standby mode as per the inverter manual's first-time startup procedure.
5. **Environment:** Environment OK (temp, humidity, clear vents).

5.2 INITIAL STARTUP

1. Power ON each battery (Master first, then others): Press Power Switch to ON. Unit self-tests.
2. Check LEDs (see Operation section). No fault → proceed. Fault → power down and fix.
3. (Optional advanced) Measure individual voltages (expect ~44.8–57.4 V range depending on SOC).

4. Measure system voltage at breaker battery side (stable, correct polarity, e.g. ~52–54 V if ~60–80% SOC).

5.3 WIFI / APP SETUP (REMOTE MONITOR)

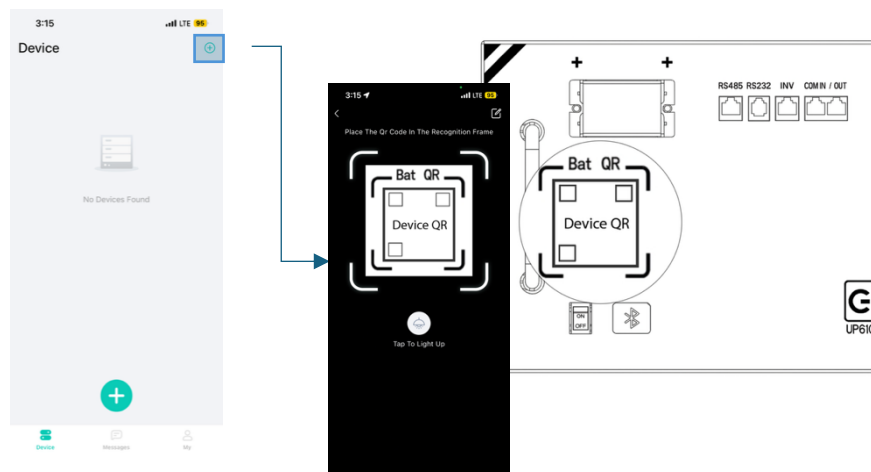
Use Mobile App to add device and set the BESS wifi to connect to platform.
Refer to Appendix 9.1 to download and sign up/Sign in mobile app.

Step: Add Device

1. Go to Device List.

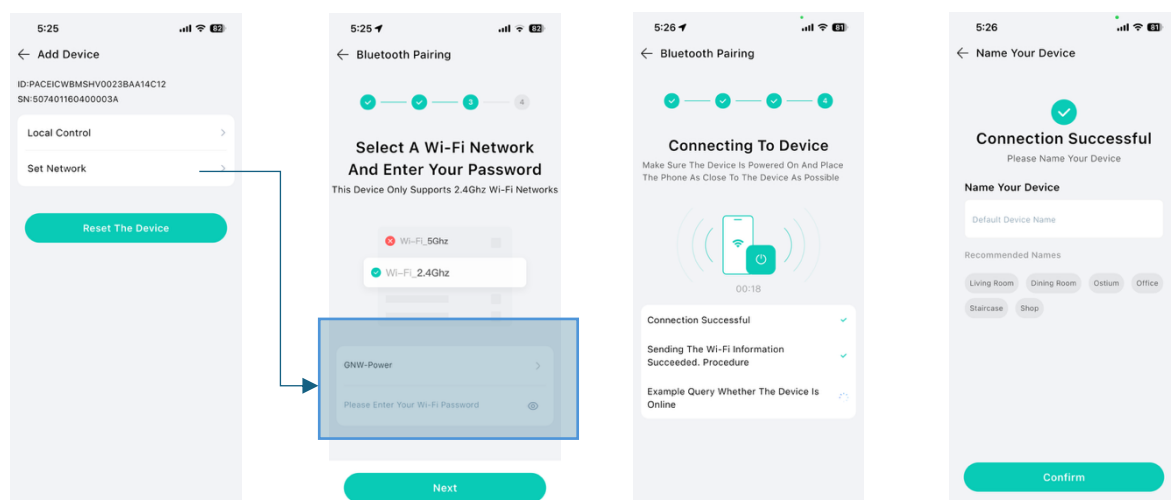
Note: Enable Bluetooth for Wuya app, grant permissions if required.

2. Scan Wifi QR code on front panel Bat QR to pair.



3. Choose:

- **Set Network:** for remote monitor through Wi-Fi. Set Network → Enter SSID/password → Connect (~1min). Name device (e.g., "Rack 1").
- **Local Control:** Bluetooth only for on-site.



5.4 INVERTER INTEGRATION AND TEST

1. **Power on Inverter:** as per its manual.
2. **Close External DC Breaker:** (after voltage / polarity OK)
3. **Verify Communication:**
 - Check the inverter's display panel or monitoring software for confirmation of communication with the battery BMS.
 - The inverter should recognize the battery and display its parameters (SOC, voltage, current).
 - If communication fails, re-check communication wiring, DIP switch settings, and inverter configuration (protocol, battery type).
4. **Functional Test:**
 - Charging Test: If a charging source (Grid/PV) is available and configured, initiate a system charge via the inverter. Monitor the charging current and voltage on the inverter and, if possible, via battery monitoring. Ensure they are within the U-P8000's specifications.
 - Discharging Test: Apply a load to the inverter. Monitor the discharging current and voltage. Ensure they are within specifications.
 - Observe the system for a period (Suggest at least 30 minutes) to ensure stable operation.

NOTICE:

If the battery system has been in storage for a long time, it may require a full charge cycle to calibrate the SOC estimation and balance the cells.

6. OPERATION

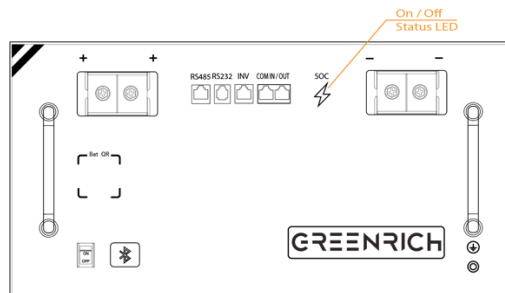
6.1 NORMAL OPERATION

Once commissioned, the U-P8000 battery system will operate automatically, managed by its internal BMS and controlled by the connected inverter.

- The BMS will protect the battery from over-charge, over-discharge, over-current, and over/under-temperature conditions.
- The inverter will manage charging from sources like solar PV or the grid and discharging to supply loads.

6.2 LED INDICATOR STATUS

6.2.1 LED INDICATOR DEFINITION



Startup:

Indication	State
Flash red → yellow → green	System ready to initialize
Steady green	Normal operation, SOC displayed
Red flash	Fault — refer to HV_ESS app for code



System initiated:

Display SOC

Idle or discharging:

SOC	LED Pattern
10% < SOC	Steady Red
10% ≤ SOC < 25%	Steady Yellow
25% ≤ SOC ≤ 100%	Steady Green

Charging:

SOC	Pattern	Flash Rate
10% < SOC	Red steady	
10% ≤ SOC < 25%	Yellow Flash2	Flash2 (0.5s on/0.5s off)
25% < SOC ≤ 95%	Green Flash2	Flash2 (0.5s on/0.5s off)
95% < SOC ≤ 100%	Green steady	-

Protection Mode: Red Flash3 (0.5s on/1.5s off) when the discharge relay is disconnected.

6.3 SHUTTING DOWN THE SYSTEM

For maintenance/emergency:

1. Turn off loads.
2. Turn off charge sources (PV isolator, grid to inverter).
3. External DC breaker OFF.
4. Battery Power Switches OFF (slaves first, then Master).

Short periods: Inverter standby/off mode; battery enters low-power if idle.

7. MAINTENANCE

⚠ WARNING:

- Maintenance should only be performed by qualified personnel.
- Always power down the battery system and disconnect it from the inverter (via the external DC breaker) before performing any physical maintenance unless otherwise specified for live checks.
- Wear appropriate PPE.

Routine Maintenance Schedule

Check Content	Maintenance Method	Maintenance Cycle
System Cleaning	Check for dust, debris, or corrosion. Clean the exterior of the battery units with a dry or slightly damp (water only) lint-free cloth. Ensure ventilation openings are clear. Check for any physical damage or deformation.	Once every six months to once a year.
System Running State	Check for any abnormal sounds during operation (before shutdown for other checks). Check that LED indicators work normally during operation. Check system parameters (SOC, voltage, temperature) via inverter monitoring or BMS software (if accessible) are normal.	Once every six months.
Electrical Connections	Visually inspect all power and communication cable connections for tightness, signs of overheating (discoloration), corrosion, or damage. ⚠ CAUTION: Torque checks should only be done by qualified personnel with the system powered down. Check cable insulation for damage, especially where cables contact metal surfaces or pass through openings.	Half a year after first commissioning, then once every half a year to a year thereafter.
Ground Reliability	Visually inspect the ground cable connection for tightness and corrosion.	Annually.
Ventilation	Ensure that ventilation pathways around the batteries and in the room are not obstructed.	Quarterly.

NOTICE:

Failure to perform routine maintenance as outlined, or performing maintenance with unqualified personnel, can lead to premature product degradation, system malfunction, safety hazards, and may void the product warranty.

Cleaning

- Use a soft, dry cloth to clean the exterior of the battery.
- If necessary, a cloth lightly dampened with clean water can be used.

⚠ CAUTION:

Never use solvents, abrasive cleaners, or large amounts of water, as these can damage the casing or internal components. Ensure the unit is dry before re-energizing.

Cable and Connection Checks

- Regularly inspect cables for any signs of wear, cracking, or damage to the insulation.
- Check terminals for any signs of corrosion or looseness. If corrosion is present, the connection should be cleaned and re-secured by qualified personnel. If looseness is suspected, terminals should be re-torqued to specification by qualified personnel with the system de-energized.

Battery Health and SOC Management

- Avoid frequently discharging the battery to very low SOC levels (e.g., below 10%) if not necessary, as this can impact long-term cycle life for some LiFePO₄ usage patterns.

- Ensure the battery undergoes a full charge cycle periodically (e.g., quarterly or as recommended by the inverter settings) to allow for cell balancing and SOC calibration.
- If the system is not used for extended periods, follow long-term storage guidelines (Section 7.2).

8. STORAGE

Short-Term Storage (Up to 3 months)

- Store the battery in a cool, dry, well-ventilated area.
- Storage Temperature: -20°C to +45°C.
- Relative Humidity: 10% to 85% RH.
- Ensure the battery's Power Switch is OFF.
- SOC should ideally be between 40% and 60%. If SOC is very low, charge it before storing.

Long-Term Storage (More than 3 months)

- **Storage Temperature:** -20°C to +25°C is optimal for minimizing capacity loss.
- **SOC:** Charge or discharge the battery to 60%~80% SOC before storage.
- **Recharge:** Recharge the battery to 60%~80% at least every six months. Failure to do so can lead to irreversible capacity loss or battery damage due to self-discharge.
- **Environment:** Store in a dry, clean, well-ventilated area away from corrosive substances, heat sources, and direct sunlight.
- **Power Switch:** Ensure the battery's Power Switch is OFF.

⚠ CAUTION:

Non-compliance with the specified storage conditions, including temperature, SOC, and periodic recharging, will significantly reduce the battery's lifespan, lead to irreversible capacity loss, and may void the warranty.

9. DECOMMISSIONING AND DISPOSAL

Safe Decommissioning

1. Follow the shutdown procedure in Section 5.3 to safely power down the battery system and isolate it from the inverter and other power sources.
2. Disconnect all cables from the battery unit(s) by qualified personnel.
3. Carefully demount the battery unit(s) from the wall.

Battery Disposal

⚠ DANGER:

Improper disposal of lithium batteries can harm the environment and pose safety risks.

- **DO NOT** dispose of lithium batteries in household waste or landfills.
- **DO NOT** incinerate lithium batteries.
- U-P8000 batteries must be recycled by an authorized battery recycling facility that handles LiFePO₄ chemistry.
- Contact your local waste management authorities, installer, or battery supplier for information on approved collection and recycling programs in your area.
- Follow all local and national environmental regulations for battery disposal.

10. APPENDIX

10.1 MOBILE APP INSTALLATION

Monitor remotely via smartphone/tablet. View-only: SOC, energy flow, alarms, history.



Supported: Android (Google Play), iOS (App Store).



Figure 2 iOS (App Store)



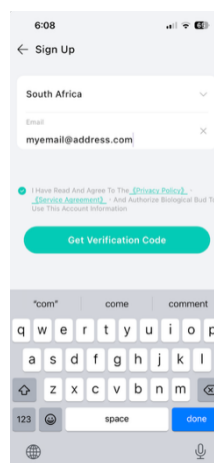
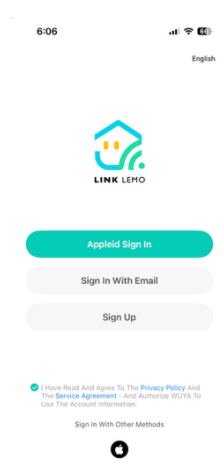
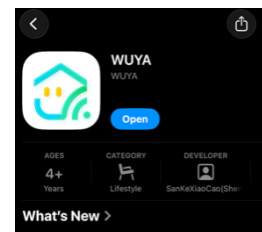
Figure 1 Android (Google Play)

Step 1: Download/Install

1. Open store, search "Wuya" or scan QR.
2. Install.

Step 2: Sign Up/In

1. Launch app.
2. Sign up (email/phone) or sign in.



10.2 COMPATIBLE INVERTER LIST

No.	Brand of inverter	No.	Brand of inverter
1	Deye/Sunsynk	12	Sofar
2	Growatt	13	Solarfam
3	Lux Power	14	Solax
4	Goodwe	15	Megarevo
5	East	16	Voltronic Power
6	SMA	17	SRNE
7	Solis	18	Pylon Tech
8	Victron	19	SAJ
9	Voltron	20	Kehua
10	Chisage	21	Sermatec
11	Must		

WARRANTY CLAIM FORM

Note: Signature or Seal stamp required. Please print, sign or stamp and then email to the Distributor. Distributor shall have no obligation for unqualified application such as incorrect information or missing necessary information.

Product Model		Serial Number(S/N)	
Company Name			
Contact Person		Contact Number	
Contact Email			
Company Address			
Name of End user			
Date of Installation			
Installation Location (Outdoors and indoors)			

Fault Description

Can the battery start up	Communication is normal	LED status (Quantity and color)

Warranty Claim Authorized Signature:

The following information must provide after faulty battery been replaced Replacement Information

Replaced by		Replace Date	
-------------	--	--------------	--

Replacement Information Authorized signature:	
Contact Distributor:	
Distributor Name: (With stamp for confirmation)	
Contact Email:	
Telephone #:	

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