EPOCH BATTERIES

USER MANUAL | ESSENTIAL SERIES BLUETOOTH DEEP-CYCLE LIFEPO4 BATTERY

12V 50Ah Essential Series LiFePO4 Battery

Model / SKU: 1250A-ES

Essential Series | Bluetooth | Deep Cycle | Compact 12V Power | IP54

Revised: 2026-06-20 | Read this manual completely before installing, charging, operating, storing, or servicing the battery.

Product photo shown for identification. Actual labels, accessories, and supplied hardware may vary by production revision.

Nominal Voltage	12.8V
Capacity	50Ah
Stored Energy	0.64kWh
Continuous Output	50A
Peak Current	170A @ 3 seconds

Legal Provisions and Important Notice

Purpose and importance of this manual

This manual provides instructions for safe handling, installation, charging, operation, storage, maintenance, troubleshooting, and warranty support for the Epoch 1250A-ES Bluetooth LiFePO4 battery. It is intended to help users and installers reduce risk, protect connected equipment, and obtain reliable battery performance.

Qualified installation

Battery systems can deliver high current. Installation and service should be performed by persons who understand DC electrical systems, lithium battery charging, overcurrent protection, conductor sizing, terminal hardware, and safe work practices. When the installation is part of a boat, RV, vehicle, trailer, cabin, or building system, comply with all applicable codes and equipment manufacturer requirements.

Product changes

Specifications, accessories, firmware, labels, and documentation may change without notice. Use the latest Epoch Batteries documentation and product labeling for installation, operation, and service.

Warranty and compliance

Failure to follow this manual, using incompatible chargers or accessories, modifying the battery, improper installation, abuse, water intrusion beyond the product rating, incorrect polarity, overcurrent events, or operation outside specified limits may void warranty coverage and may create safety hazards.

> **WARNING:** Incorrect installation or use can cause fire, electric shock, severe injury, death, or damage to the battery and connected equipment. Stop and contact Epoch Batteries support if any instruction is unclear.

Safety Signal Words

This manual uses the following signal words to identify the severity of a hazard or instruction.

DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates practices that can damage the battery, connected equipment, or property.

General safety rules

- Read all instructions before use.
- Keep the battery away from children and pets.
- Do not open, drill, crush, puncture, drop, burn, or modify the battery.
- Do not short the terminals or allow tools, jewelry, or conductive objects to bridge the terminals.
- Use insulated tools and appropriate personal protective equipment.
- Confirm polarity before connecting chargers, loads, DC-to-DC chargers, solar controllers, inverters, or series/parallel wiring.
- Stop using the battery immediately if it becomes unusually hot, emits odor, smokes, leaks, swells, makes unusual sounds, or is physically damaged.

DANGER: Do not connect the positive and negative terminals together. A short circuit can release extremely high current and may cause arcing, burns, fire, or equipment damage.

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1. Introduction

Thank you for choosing Epoch Batteries. The Epoch 1250A-ES is a 12.8V, 50Ah, 0.64kWh Essential Series LiFePO4 battery designed for compact 12V deep-cycle energy systems.

This manual explains how to use the battery safely in marine electronics, small RV and van systems, portable solar storage, backup power, 12V accessory systems, compact off-grid projects, and other applications where the system requirements match the battery specifications.

Who should use this manual

- End users who need basic safety, charging, Bluetooth, and storage guidance.
- Installers who need model-specific electrical limits, terminal information, and battery bank considerations.
- Dealers, support teams, and service technicians who need a consistent troubleshooting and warranty reference.

Important compatibility note

The 1250A-ES is a lithium deep-cycle battery and is not a drop-in replacement for every lead-acid installation. Before installation, verify tray fitment, terminal clearance, cable size, overcurrent protection, charger profile, charging source compatibility, and load requirements.

> **NOTICE:** This model is designed as a compact Bluetooth deep-cycle LiFePO4 battery. It is not listed as a heated battery or a cranking battery. For engine starting applications or charging below 0 C / 32 F, use equipment designed for that purpose or confirm compatibility directly with Epoch before installation.

2. Product Overview

The Epoch 1250A-ES combines LiFePO4 chemistry, Bluetooth monitoring, advanced BMS protection, IP54 weather resistance, and 0.64kWh of stored energy in a compact case for 12V deep-cycle applications.

Primary uses

- Small RV, camper, travel trailer, and van auxiliary 12V power systems.
- Marine house-power applications for fish finders, pumps, lighting, and onboard electronics, within current limits.
- Kayak, canoe, skiff, and small-boat electronics where voltage and current requirements match the battery rating.
- Portable solar energy storage for camping, cabins, trailers, and compact off-grid projects.
- Backup power for compatible 12V equipment and compact energy-storage systems.
- 12V trolling motor and accessory setups where the motor, wiring, charger, and peak/continuous current requirements are within battery ratings.
- 24V, 36V, and 48V systems using matched batteries in series, up to manufacturer limits.

Key features

LiFePO4 chemistry	Stable lithium iron phosphate chemistry for long cycle life and reliable deep-cycle operation.
50Ah capacity	Stores approximately 0.64kWh for compact deep-cycle runtime.
Bluetooth monitoring	Compatible with the Epoch Pro app for iOS and Android battery visibility.
Advanced BMS	Helps protect against overcharge, over-discharge, over-current, short circuit, and high or low temperature conditions.
50A continuous output	Supports reliable power for compact 12V loads and auxiliary systems within rating.
170A peak output	Provides short-duration peak output for up to 3 seconds.
IP54 enclosure	Dust-protected and splash-resistant for everyday mobile, RV, marine house-power, and outdoor use; not submersible.
Series/parallel expansion	Supports up to 4 batteries in series and up to 4 batteries in parallel, using matched batteries.
Maintenance-free	No watering, acid maintenance, or routine lead-acid service required.

NOTICE: This model does not include internal heating. Do not charge the battery below 0 C / 32 F. Allow the battery to warm to the specified charging temperature range before charging.

NOTICE: IP54 weather resistance does not mean waterproof. Do not submerge, pressure wash, or install the battery where standing water can collect around the case or terminals.

3. Specifications

General and electrical specifications

Brand	Epoch Batteries
Model / SKU	1250A-ES
Series	Essential Series
Battery Type	Bluetooth deep-cycle LiFePO4 battery
Case Style	Compact Essential case
Chemistry	LiFePO4 / lithium iron phosphate
Cell Configuration	4S
Nominal Voltage	12.8V
Nominal Capacity	50Ah
Stored Energy	0.64kWh / 640Wh
Operating Voltage Range	10.0V to 14.6V
Maximum Charge Voltage	14.6V
Bluetooth	Yes - compatible with iOS and Android apps
Self-Heating	No
Low-Temperature Charge Protection	Yes - low-temperature disconnect protection

Current, temperature, and mechanical specifications

Max Continuous Discharge	50A
Maximum Discharge Current	50A
Max Continuous Charge Current	50A
Recommended Charge Rate	25A recommended typical charge rate; 50A maximum
Max Discharge Peak Current	170A @ 3 seconds
Series Connections	Max 4 batteries in series, up to 48V system class
Parallel Connections	Max 4 batteries in parallel
Maximum Configuration	4S4P, using matched batteries and rated equipment
Maximum 12V Parallel Bank	Up to 200Ah / 2.56kWh at 12V system class
Charge Temperature Range	0 C to 55 C / 32 F to 131 F
Discharge Temperature Range	-20 C to 60 C / -4 F to 140 F
Storage Temperature	0 C to 35 C / 32 F to 95 F, maximum 12 months
Dimensions	7.7 in L x 6.5 in W x 6.9 in H
Weight	14.3 lb / 6.5 kg
Enclosure Protection	IP54
Water / Dust	Dust protected / splash resistant; not intended for submersion
Terminals	Bolt terminals

Cycle Life	4,000+ cycles
Warranty	11-year manufacturer warranty

Recommended charging settings

Maximum Continuous Charge Current	50A
Recommended Charge Rate	50% of battery or battery bank capacity; 25A for one 50Ah battery
Bulk / Absorption Voltage	14.2V to 14.6V
Absorption Time	30 minutes per 200Ah bank
Float Voltage	13.4V to 13.8V
Equalization	14.4V / disabled
Temperature Compensation	0 / disabled
Battery Charge Temperature Range	0 C to 55 C / 32 F to 131 F
Battery Discharge Temperature Range	-20 C to 60 C / -4 F to 140 F
BMS High Voltage Cutoff	14.6V
SOC Recalibration Voltage	14.6V

BMS protection and compliance

Battery Management System	Built-in smart BMS
Protection Functions	Overcharge, over-discharge, over-current, short-circuit, high temperature, and low temperature disconnects
Bluetooth Monitoring	iOS / Android apps
Compliance Markings	CE, RoHS
Shipping	UN38.3

4. Safety Guidelines

Safe use depends on correct equipment, proper wiring, clean connections, compatible chargers, secure terminal hardware, and operation within temperature and current limits.

Do not

- Do not mix this battery with lead-acid batteries in the same battery bank.
- Do not mix different battery models, capacities, ages, or chemistries in a series or parallel bank.
- Do not connect to a charger, alternator system, converter, inverter charger, solar controller, or DC-to-DC charger that cannot be configured for LiFePO4.
- Do not use lead-acid equalization, desulfation, or repair modes.
- Do not exceed 50A continuous charge current.
- Do not exceed 50A continuous discharge current.
- Do not exceed 170a @ 3 seconds.
- Do not charge the battery below 0 C / 32 F.
- Do not install without properly sized DC overcurrent protection.
- Do not submerge, pressure wash, or expose the battery to standing water.
- Do not continue use after a severe impact, fire event, water intrusion, or visible case damage.

Emergency conditions

If the battery smokes, becomes unusually hot, emits odor, leaks, swells, or behaves abnormally, stop use immediately. If safe, disconnect chargers and loads. Move people away from the battery and contact emergency services when fire, smoke, chemical exposure, or injury is possible. Follow the product SDS and emergency responder instructions.

WARNING: Do not use water directly on a damaged or burning lithium battery unless directed by emergency responders. Use an appropriate extinguisher and follow local emergency procedures.

5. Pre-Installation Checklist

Complete this checklist before connecting the battery. Most installation problems can be prevented before the first cable is attached.

Check	Item
[ ]	Battery case is undamaged and terminals are clean.
[ ]	Battery model, voltage, capacity, and application requirements have been confirmed.
[ ]	Battery tray or mounting location fits the 7.7 in L x 6.5 in W x 6.9 in H case with cable clearance.
[ ]	Charger, inverter charger, converter, solar controller, or DC-to-DC charger is configured for 12V LiFePO4 charging.
[ ]	All batteries in a bank are the same model, age, capacity, and state of charge.
[ ]	Main fuse or circuit breaker is selected for the wire, load, and system voltage.
[ ]	Cables and lugs are sized for current, length, voltage drop, and installation environment.

[ ]	Polarity has been verified before making final connections.
[ ]	Terminal hardware, washers, and protective covers are ready for installation.
[ ]	The Epoch Pro app or another approved monitoring method is available for commissioning and checks.

6. Installation Guide

Location

- Install in a clean, dry, accessible location protected from accidental impact.
- Allow airflow around the battery and connected equipment.
- Keep away from heat sources, sparks, open flames, fuel, and flammable materials.
- Avoid prolonged direct sunlight and locations that exceed the temperature limits.
- Do not install where standing water can collect around the battery case or terminals.

Mounting and orientation

Secure the battery so it cannot slide, tip, or impact nearby equipment during operation, vehicle motion, trailer motion, vessel motion, or transport. Use a tray, strap, bracket, or enclosure appropriate for the application and battery weight.

Install in an upright position unless Epoch product documentation for this exact model allows another orientation. Ensure the top terminals and wiring remain protected from accidental contact.

Environmental protection

The IP54 enclosure is dust-protected and splash-resistant for many everyday mobile, RV, marine house-power, and outdoor environments. It is not designed for submersion, pressure washing, bilge flooding, or continuous water exposure.

> **NOTICE:** Leave enough clearance above the terminals for cable bend radius, terminal boots, and inspection. Do not force cables to bend sharply at the terminal posts.

7. Electrical Connection Guide

Polarity

Connect positive (+) to positive and negative (-) to negative. Reverse polarity can damage the battery, charger, inverter, electronics, or connected loads.

> **DANGER:** Before tightening the final connection, use a multimeter to confirm system polarity and voltage. Never rely only on cable color or assumptions.

Terminal connection procedure

1. Turn off chargers, inverters, loads, and DC disconnects before wiring.
2. Remove jewelry and use insulated tools.
3. Keep terminal caps or covers in place until each terminal is being wired.
4. Use clean, properly crimped lugs with flat contact surfaces.
5. Connect and tighten the positive terminal, then connect and tighten the negative terminal.
6. Tighten terminal hardware securely using the supplied hardware and product labeling. Do not over-tighten or damage the terminals.
7. Install terminal boots or protective covers after final tightness is confirmed.

Cable and protection requirements

Cable Size	Size conductors for maximum current, circuit length, voltage drop, ambient temperature, and applicable code requirements.
Main Protection	Install a fuse or DC-rated circuit breaker as close as practical to the battery positive terminal.
Voltage Rating	Protection devices and switches must be rated for the maximum system voltage, especially in series banks.
Wire Ampacity	The fuse or breaker must protect the smallest conductor in the circuit.
Lug Stack	Keep the terminal stack flat and secure. Use a busbar if multiple conductors must connect to one battery terminal.
Cable Routing	Route cables away from sharp edges, heat sources, moving parts, and wet areas.

Recommended disconnect sequence

To disconnect the battery from a system, turn off all chargers and loads, open the DC disconnect or breaker, remove the negative cable, then remove the positive cable. Cap or cover terminals immediately after disconnection.

8. Series and Parallel Battery Banks

The 1250A-ES supports up to 4 batteries in series and up to 4 batteries in parallel. Use only matched 1250A-ES batteries with similar age, condition, and state of charge.

Series connections

Series wiring increases voltage while amp-hour capacity remains the same. Use a charger and loads designed for the resulting system voltage.

Batteries in Series	System Class	Nominal Voltage	Capacity	Energy
1S	12V	12.8V	50Ah	0.64kWh
2S	24V	25.6V	50Ah	1.28kWh
3S	36V	38.4V	50Ah	1.92kWh
4S	48V	51.2V	50Ah	2.56kWh

WARNING: Series banks can exceed touch-safe voltages and require equipment rated for the complete pack voltage. Do not exceed 4 batteries in series.

Parallel connections

Parallel wiring increases amp-hour capacity and runtime while voltage remains the same. Use balanced wiring so each battery sees similar resistance during charging and discharging.

Batteries in Parallel	System Class	Nominal Voltage	Capacity	Energy
1P	12V	12.8V	50Ah	0.64kWh
2P	12V	12.8V	100Ah	1.28kWh
3P	12V	12.8V	150Ah	1.92kWh
4P	12V	12.8V	200Ah	2.56kWh

Balanced wiring practices

- Charge each battery fully before connecting batteries into a bank.
- Use identical cable lengths and gauges for each battery in a parallel bank whenever practical.
- Connect loads and chargers through properly rated positive and negative busbars for larger banks.
- Fuse each battery or string when required by system design and applicable standards.
- Do not daisy-chain banks when unequal cable resistance could cause uneven charging or discharging.

Maximum 4S4P configuration

A 4S4P bank uses matched batteries arranged into series strings and then parallel-connected for expanded voltage and capacity. Large series/parallel banks require equipment rated for the full system voltage and current, properly sized overcurrent protection, and balanced wiring.

9. Deep-Cycle Application Guide

Marine electronics and small boat systems

Use the 1250A-ES for onboard electronics and accessory loads where the continuous and peak current demands are within specification. Protect the battery from bilge water, salt spray accumulation, standing water, and mechanical impact.

RV, van, and camper accessory systems

Use this battery as compact 12V auxiliary power for lighting, small electronics, fans, pumps, communications, and other loads within the battery current rating. Confirm that converters, inverter chargers, alternator charging equipment, and DC-to-DC chargers are programmed within the LiFePO4 charging settings in this manual.

Portable solar and backup systems

The battery can be charged by a compatible solar charge controller, DC-to-DC charger, converter, inverter charger, or portable LiFePO4 charger. Verify that all charging sources share compatible voltage settings and that total charge current does not exceed the battery or bank rating.

Trolling motor and accessory notice

This battery may be used in trolling motor or accessory systems when the motor, wiring, voltage, peak current, continuous current, and charger requirements are within battery ratings. It is not a cranking-rated starting battery.

10. Charging Guide

Proper charging is essential for safety, service life, and accurate Bluetooth monitoring. Use charging equipment designed for LiFePO4 batteries and programmed within the settings below.

Charging profile

Setting	Recommended Value
Bulk / Absorption	14.2V to 14.6V
Float	13.4V to 13.8V
Equalization	Disabled; do not use lead-acid equalization or desulfation modes
Temperature Compensation	Disabled / 0
Maximum Charge Current	50A
Recommended Charge Rate	25A for one 50Ah battery; 50% of bank capacity for multi-battery banks
Charge Temperature	0 C to 55 C / 32 F to 131 F

Before first use

1. Inspect the battery and verify that no damage occurred during shipping or handling.
2. Verify polarity and charger settings before connecting the charger.
3. Fully charge the battery with a compatible LiFePO4 charger before initial use or before connecting multiple batteries into a bank.
4. Confirm battery status in the Epoch Pro app after charging.

Charging precautions

- Charge in a clean, dry, ventilated location away from flammable materials.
- Do not charge below 0 C / 32 F. This model is not listed as a heated battery.
- Do not exceed the maximum charge voltage or maximum charge current.
- Do not use lead-acid repair, desulfation, or automatic equalization modes.
- Stop charging if the battery, charger, cables, or terminals become unusually hot or show signs of damage.

NOTICE: Not all chargers are capable of multistage lithium charging. If a charger cannot be fully programmed, verify that bulk/absorption voltage is within range and that equalization and temperature compensation are disabled when applicable.

11. Bluetooth Monitoring

The 1250A-ES includes Bluetooth monitoring for convenient battery visibility through the Epoch Pro app for iOS and Android.

App setup

1. Download the Epoch Pro app from the Apple App Store or Google Play.
2. Enable Bluetooth on the mobile device.
3. Allow required Bluetooth permissions when prompted. Some Android devices may require location services for fine Bluetooth scanning.
4. Open the app near the battery and select the battery from the device list.
5. If a PIN is requested, use the PIN printed on the battery label or product documentation.

Typical information available

State of Charge	Estimated remaining battery capacity.
Voltage	Battery terminal or pack voltage.
Current	Charge or discharge current when active.
Temperature	Battery or BMS temperature readings when available.
Status / Protection	BMS operating state, protection events, or alerts when available.

NOTICE: Bluetooth range, displayed data, app screens, PIN behavior, and firmware features may vary by mobile device, app version, and battery production revision.

12. Operation and Storage

Operating limits

Continuous Discharge Limit	50A
Maximum Discharge Current	50A
Peak Discharge Limit	170A @ 3 seconds
Continuous Charge Limit	50A
Operating Voltage Range	10.0V to 14.6V
Discharge Temperature Range	-20 C to 60 C / -4 F to 140 F
Charge Temperature Range	0 C to 55 C / 32 F to 131 F

Depth of discharge

LiFePO4 batteries can provide more usable energy than lead-acid batteries, but routine operation at moderate depth of discharge can improve long-term service life. Avoid leaving the battery fully depleted.

Storage

- Store in a clean, dry location within 0 C to 35 C / 32 F to 95 F whenever practical.
- For long-term storage, charge to approximately 50% state of charge or higher.

- Disconnect loads and chargers during storage unless the system is specifically designed for standby maintenance.
- Check voltage or app state of charge every 3 to 6 months and recharge if needed.
- Protect terminals from accidental short circuit while the battery is stored or transported.

> **CAUTION:** A battery stored at very low state of charge can enter low-voltage protection and may not be recoverable if left discharged for an extended period.

13. Maintenance

The 1250A-ES is maintenance-free compared with lead-acid batteries. It does not require watering or acid service. Routine inspections help maintain safe operation.

Maintenance schedule

Interval	Action
Before Each Trip or Use	Inspect case, terminals, cables, fuses, disconnects, mounting hardware, and app status.
Monthly During Active Use	Check terminal tightness, cable condition, app data, resting voltage, and system monitor readings.
Every 3 to 6 Months	Check state of charge during storage and recharge if needed.
Annually	Inspect terminal hardware, wiring layout, protection devices, battery tray, ventilation, and charger settings.
After Any Fault or Impact	Stop use, inspect for damage, record symptoms, and contact support as needed.

Terminal maintenance

- Turn off and disconnect chargers and loads before maintenance.
- Keep terminals clean and dry.
- Use a soft brush or dry cloth to remove dust and debris.
- Do not use solvents, abrasive cleaners, or pressure washing on the battery.
- Confirm terminal hardware is tight and secure. Do not over-tighten or damage terminals.
- Replace damaged lugs, cables, boots, or hardware before returning the battery to service.

Voltage and Bluetooth checks

Use a reliable multimeter to check terminal voltage and charger output. Resting voltage changes slowly on LiFePO4 batteries, so use the Bluetooth app, a shunt-based battery monitor, and load testing when a more complete health check is needed.

14. Troubleshooting

Use the table below to identify common causes and corrective actions. Stop testing if there is smoke, heat, odor, swelling, liquid, arcing, or visible damage.

Symptom	Likely Causes	Corrective Actions
Battery will not charge	Charger off, reverse polarity, incompatible profile, BMS protection, low-temperature condition, blown fuse.	Confirm charger settings and polarity. Check fuses and disconnects. Warm the battery above 0 C / 32 F if cold. Check app status and charger output.

Battery voltage is low	Battery discharged, parasitic load, BMS low-voltage protection.	Disconnect loads. Charge with a compatible 12V LiFePO4 charger. Check for parasitic draws before storage.
Low runtime	Higher load than expected, battery not fully charged, cold temperature, capacity imbalance in bank.	Fully charge. Measure load current. Check app SOC and wiring balance. Test one battery at a time if in a bank.
Fuse or breaker trips	Short circuit, overload, inrush current, undersized protection, damaged cable.	Disconnect loads. Inspect wiring. Confirm load current and protection rating. Replace damaged parts.
Battery becomes hot	High ambient temperature, excessive current, poor ventilation, charger fault.	Reduce load or charge current. Improve ventilation. Confirm charger settings and stop use if abnormal.
Charging stops in cold weather	Battery temperature below charge limit; low-temperature charge protection active.	Move battery to a warmer location and allow it to stabilize before charging. Do not bypass protection.
Bluetooth will not connect	Bluetooth disabled, permission not granted, distance too far, app issue, wrong PIN.	Enable Bluetooth and required permissions. Move closer to the battery. Restart the app. Verify the PIN on the battery label if prompted.
Unexpected shutoff	BMS protection, low voltage, overcurrent, short circuit, or high/low temperature condition.	Remove load or charger. Check app status, temperature, voltage, wiring, and protection devices before reconnecting.

WARNING: Do not repeatedly reset a fuse, breaker, charger, or BMS fault without identifying the cause. Repeated faults can indicate unsafe wiring or equipment mismatch.

15. Warranty and Support

Warranty coverage

The battery is accompanied by an 11-year manufacturer warranty. Warranty coverage applies to qualifying manufacturing defects under normal use and is subject to Epoch Batteries warranty terms and claim procedures.

Warranty exclusions

- Misuse, abuse, neglect, improper handling, or improper maintenance.
- Incorrect polarity, short circuit, overcurrent, or incompatible charging equipment.
- Use outside specified voltage, current, temperature, or environmental limits.
- Unauthorized modification, disassembly, repair, or tampering.
- Water intrusion, submersion, pressure washing, impact damage, fire, flood, or other external causes.
- Use with non-approved or incompatible accessories, chargers, or system components.
- Mixing with different battery models, capacities, ages, or chemistries in a battery bank.

Warranty claim procedure

1. Gather proof of purchase, model number, serial number, installation date, and a description of the issue.
2. Record photos of the installation, cables, fuses, charger settings, and any visible damage.
3. Record voltage, Bluetooth app data, charger display information, monitor data, or other system observations if available.
4. Contact Epoch Batteries support for troubleshooting and claim instructions.
5. Do not ship or return a battery unless instructed by Epoch Batteries support.

Support contact

Phone	1-888-501-1846
Email	support@epochbatteries.com
Website	EpochBatteries.com

16. Commissioning and Maintenance Records

Use these records for installation, support, maintenance, and warranty documentation.

Commissioning record

Battery Model / SKU	
Serial Number	
Purchase Date	
Installation Date	
Installer / Owner	
Application	
System Voltage	
Number of Batteries	
Initial Resting Voltage	

Initial State of Charge	
Charger Model and Settings	
Main Fuse / Breaker Rating	
Cable Gauge and Length	
Terminal Hardware Tightness Confirmed	
Bluetooth App Connected	
Low-Temperature Charge Protection Verified	

Maintenance log

Date	Voltage / SOC	Inspection Notes	Action Taken

End of manual.