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› LOSSIGY 48V 105Ah Lithium Battery System User Manual

LOSSIGY 48105-1

LOSSIGY 48V 105Ah Lithium Battery System User Manual

Model: 48105-1

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your LOSSIGY 48V 105Ah LiFePO₄ Lithium Battery System. Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of your battery system. This system is designed for applications such as golf carts, trolling motors, and marine use.



Image 1.1: The complete LOSSIGY 48V 105Ah LiFePO4 Lithium Battery System, including the battery, smart charger, and Bluetooth LCD monitor.

2. PRODUCT OVERVIEW

2.1. What's in the Box?

Your LOSSIGY 48V 105Ah Lithium Battery System package includes the following components:

- LOSSIGY 48V 105Ah LiFePO4 Battery
- 58.4V 18A Smart Battery Charger
- Bluetooth Touch Display with Bracket
- Reinforced Straps
- Taping & Terminals (Red and Black caps, bolts)

What's in the Box?



LOSSIGY 48V/51.2 Volt Battery



Taping & Terminal



58.4 Volt 18A Charger



Monitor with Brackets

Image 2.1: Visual representation of all items included in the LOSSIGY 48V 105Ah Lithium Battery System package.

2.2. Key Features

- **Integrated 48V System:** A complete solution for 48V applications, including battery, charger, and monitoring.
- **Automatic Voltage Balancing:** Integrated circuits maintain cell-to-cell voltage differences within 40mV during charging, enhancing durability.
- **Deep Cycle Life:** Achieves ≥ 4000 deep cycles at 80% Depth of Discharge (DOD).
- **Powerful 200A BMS:** Built-in Battery Management System protects against overcharging, over-discharging, overcurrent, short circuits, and extreme temperatures. Supports 200A continuous discharge and 1000A peak current (3-5 seconds).
- **Dual Monitoring System:** Bluetooth app connectivity and a direct-connect touchscreen display allow real-time monitoring of battery status and parameters.
- **Rugged Construction:** Features high-density Grade A LiFePO4 cells, a shockproof and flame-retardant ABS casing, and an IP65 waterproof rating.

EFFICIENT WORK A-GRADE BATTERY CELLS



Over-Charge



Over-Discharge



Over-Current



Short Circuit



Low/High
Temp Cutoff



Image 2.2: An illustration detailing the internal structure and key features of the LOSSIGY battery, including the 200A BMS, IP65 waterproof design, and Bluetooth monitoring capabilities.

Multiple Protection



Ove-charger Protection



Over-Discharge Protection



Over-Current Protection



Short-Circuit Protection



Low-Voltage Protection



High-Temp Protection



Image 2.3: This diagram illustrates the A-grade battery cells and the comprehensive protection features provided by the BMS, such as over-charge, over-discharge, over-current, short circuit, and low/high temperature cutoff.

3. SAFETY INFORMATION

Adhering to safety guidelines is crucial when handling and operating lithium batteries. Failure to follow these instructions can result in property damage, injury, or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves, when working with batteries.
- Do not short-circuit the battery terminals. This can cause severe damage to the battery and pose a fire hazard.
- Ensure all connections are tight and secure to prevent arcing and overheating.
- Do not disassemble, puncture, or modify the battery. Internal components are not user-serviceable.
- Keep the battery away from heat sources, open flames, and flammable materials.
- Do not immerse the battery in water or expose it to excessive moisture, despite its IP65 rating.
- Use only the provided LOSSIGY smart charger or a charger specifically designed for LiFePO4 batteries with

the correct voltage and current specifications.

- In case of fire, use a Class D fire extinguisher or a large amount of water. Do not use CO2 or foam extinguishers.
- Store the battery in a cool, dry, and well-ventilated area.

Suitable for all vehicle models

Powerful And Stable On The Way

48V
Volts

105AH
Capacity

200A
BMS

5376Wh
Energy

1000A
PEAK

EZ-GO

YAMAHA

Club Car

TXT

And More

Image 3.1: This graphic highlights the comprehensive safety features integrated into the LOSSIGY battery, including protection against over-charge, over-discharge, over-current, short-circuit, low-voltage, and high-temperature conditions.

4. SETUP

4.1. Pre-Installation Checklist

- Verify that the battery voltage (48V) matches your application's requirements.
- Ensure the installation area is clean, dry, and well-ventilated.
- Gather all necessary tools: wrenches, wire cutters/strippers, multimeter, and PPE.
- Confirm that your golf cart controller or motor system is compatible with a 48V LiFePO4 battery.

4.2. Battery Installation

1. **Remove Old Batteries (if applicable):** Disconnect the negative terminal first, then the positive terminal of your existing battery bank. Carefully remove the old batteries.
2. **Position the LOSSIGY Battery:** Place the LOSSIGY 48V 105Ah battery in the designated battery tray. Ensure it is stable and secure. Use the provided reinforced straps if necessary to prevent movement during operation.
3. **Connect Terminals:** Connect the positive (+) cable from your application (e.g., golf cart controller) to the positive (+) terminal of the LOSSIGY battery. Connect the negative (-) cable to the negative (-) terminal. Ensure connections are tight using appropriate wrenches.
4. **Verify Connections:** Double-check all connections for correct polarity and tightness. Incorrect polarity can cause severe damage.

4.3. Charger Connection

1. Connect the charger's output plug to the charging port on the battery.
2. Plug the charger's AC input cord into a standard wall outlet (100-240V AC).
3. The charger will indicate charging status (refer to charger manual for specific LED indicators).

4.4. Bluetooth Touch Display Setup

1. Mount the Bluetooth touch display using the provided bracket in a convenient location.
2. Connect the display cable to the designated port on the battery.
3. The display should power on and show real-time battery information.
4. For Bluetooth connectivity, download the LOSSIGY app from your device's app store. Follow the in-app instructions to pair with your battery.

5. OPERATING INSTRUCTIONS

5.1. Initial Charge

It is recommended to fully charge the battery before its first use to ensure optimal performance and calibration of the BMS.

5.2. Regular Operation

- Ensure all connections are secure before operating your golf cart or marine vessel.
- Monitor battery status via the Bluetooth app or LCD display during use.
- Avoid consistently discharging the battery below 20% to prolong its lifespan, although the BMS will protect against over-discharge.

5.3. Charging

- Always use the provided 58.4V 18A smart charger.
- Connect the charger to the battery first, then to the AC power outlet.
- The charger will automatically stop charging when the battery is full.
- Disconnect the AC power first, then the charger from the battery when charging is complete.

5.4. Bluetooth App and LCD Monitor Usage

The Bluetooth app and LCD monitor provide real-time data on your battery's state of charge, voltage, current, temperature, and individual cell voltages. Refer to the specific instructions provided with the Bluetooth display for detailed operation and app pairing procedures.

6. MAINTENANCE

6.1. Cleaning

- Keep the battery terminals clean and free of corrosion. Use a dry cloth to wipe down the battery casing.
- Do not use solvents or abrasive cleaners on the battery.

6.2. Storage

- If storing the battery for an extended period, ensure it is charged to approximately 50-70% of its capacity.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Periodically check the battery's state of charge during storage and recharge if necessary to prevent deep discharge.

6.3. Inspection

- Regularly inspect the battery casing for any signs of damage, swelling, or leaks.
- Check all cables and connections for wear, fraying, or looseness.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your LOSSIGY 48V 105Ah Lithium Battery System.

Problem	Possible Cause	Solution
Battery not charging	Charger not connected properly; Charger malfunction; Battery BMS protection activated.	Ensure charger is securely connected to battery and AC outlet. Check charger indicator lights. If BMS is active, disconnect load and charger, wait a few minutes, then try charging again. Contact support if issue persists.
No power output from battery	Loose connections; BMS protection activated (over-discharge, overcurrent); Battery fully discharged.	Check all terminal connections for tightness. If BMS protection is active, remove the load and attempt to charge the battery. If fully discharged, connect to charger.
Bluetooth display not working or showing incorrect data	Loose display cable; Display malfunction; App not connected.	Ensure the display cable is securely connected to the battery. Restart the display by disconnecting and reconnecting. For app issues, ensure Bluetooth is enabled on your device and the app is properly paired.
Reduced range or performance	Battery not fully charged; High power draw; Environmental factors (temperature).	Ensure battery is fully charged before use. Reduce heavy loads if possible. Performance may be affected by extreme cold or hot temperatures.

8. SPECIFICATIONS

Feature	Specification
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	48V
Nominal Capacity	105Ah
Energy	5376Wh
BMS Continuous Discharge Current	200A
Peak Discharge Current	1000A (3-5 seconds)
Cycle Life	≥4000 cycles @ 80% DOD
Charger Voltage	58.4V
Charger Current	18A
Waterproof Rating	IP65
Monitoring	Bluetooth App & LCD Monitor
Model Number	48105-1
UPC	757158493917

9. WARRANTY AND SUPPORT

9.1. Warranty Information

LOSSIGY offers a 5-year warranty for this 48V 105Ah LiFePO4 Lithium Battery System. This warranty covers defects in materials and workmanship under normal use and service conditions.

9.2. Technical Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact LOSSIGY customer support. Professional technical support is available 24/7.

For more information or to contact support, please visit the official LOSSIGY store on Amazon [LOSSIGY Amazon Store](#)

