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LOSSIGY 36V100Ah Pro+Charger

LOSSIGY 36V 100Ah LiFePO4 Lithium Golf Cart Battery User Manual

Model: 36V100Ah Pro+Charger

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1. Product Overview

This manual provides essential information for the safe and efficient use of your LOSSIGY 36V 100Ah LiFePO4 Lithium Golf Cart Battery. Designed for high performance and longevity, this battery is suitable for golf carts, trolling motors, marine applications, and other compatible 36V systems. It features Grade A LiFePO4 cells, a built-in 200A Bluetooth Battery Management System (BMS), and a long lifespan.



Image 1.1: The LOSSIGY 36V 100Ah LiFePO4 battery, accompanied by its 25A charger and a separate monitor for real-time data display.



Image 1.2: The LOSSIGY LiFePO4 battery is suitable for various vehicles including golf carts, boats, lawn mowers, and sightseeing cars.

2. Safety Instructions

WARNING: Failure to follow these safety instructions may result in fire, electric shock, serious injury, or property damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves, when handling batteries.
- Do not short-circuit the battery terminals. This can cause severe damage to the battery and pose a fire hazard.
- Ensure proper ventilation during charging and operation to prevent heat buildup.
- Use only the LOSSIGY 36V 25A LiFePO4 charger provided with the battery. Using incompatible chargers can damage the battery and void the warranty.
- Do not expose the battery to extreme temperatures outside the specified operating range (Charging: 32°F ~ 113°F; Discharge: -4°F ~ 140°F; Storage: 10°F ~ 122°F).
- Keep the battery away from water, moisture, and flammable materials. The battery has an IP65 waterproof rating,

but direct submersion is not recommended.

- Do not disassemble, puncture, or modify the battery. There are no user-serviceable parts inside.
- Keep out of reach of children and pets.
- In case of fire, use a Class D fire extinguisher. Water can exacerbate lithium battery fires.
- This item is subject to hazardous materials regulations and may be non-returnable. Handle with care.

3. Package Contents

Verify that all items are present and undamaged upon opening the package:

- 1 x LOSSIGY 36V 100Ah LiFePO4 Lithium Battery
- 1 x LOSSIGY 36V 25A LiFePO4 Charger
- 1 x Battery Monitor (with shunt and connecting cables)
- 2 x M8 Stud Terminals
- 1 x User Manual (this document)

4. Product Specifications



Image 4.1: Physical dimensions of the LOSSIGY 36V 100Ah LiFePO4 battery, measuring 20.47 x 10.59 x 8.66 inches.

Table 4.1: Technical Specifications

Parameter	Value
Brand	LOSSIGY
Model	36V100Ah Pro+Charger
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	38.4V
Total Capacity	100Ah
Energy	3840Wh
Charge Voltage Range	42.6V - 43.8V

Parameter	Value
Full Charge Voltage Range	40.2V - 41.4V
Recommended Charging Current	20A
BMS	200A Bluetooth BMS
Peak Current	1000A (3-5s)
Max Continuous Current	100A
Max Continuous Load	3840W
Waterproof Grade	IP65
Product Dimensions (L x W x H)	20.47" x 10.59" x 8.66"
Item Weight	66.9 Pounds (30.34 kg)
Terminals	Removable M8 Stud Terminal
Lifespan	4000+ Cycles (up to 10 years)
Operating Temperature (Charging)	32°F ~ 113°F (0°C ~ 45°C)
Operating Temperature (Discharge)	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	10°F ~ 122°F (-12°C ~ 50°C)
Parallel Connection	Up to 4 units

5. Installation & Setup

5.1 Pre-Installation Checklist

- Ensure the battery is fully charged before initial use.
- Verify that your golf cart or application is compatible with a 36V system.
- Gather necessary tools: insulated wrenches, wire cutters/strippers, multimeter, and PPE.
- Disconnect all power from your vehicle's electrical system before beginning installation.

5.2 Physical Installation

1. **Placement:** Position the LOSSIGY battery in a secure, well-ventilated location within your golf cart or marine vessel. Ensure it is protected from direct impact and excessive vibration. The battery's dimensions are 20.47"L x 10.59"W x 8.66"H.
2. **Mounting:** Secure the battery using appropriate straps or a battery tray to prevent movement during operation.
3. **Terminal Connection:** Connect the positive (+) terminal of the battery to the positive (+) cable of your system, and the negative (-) terminal to the negative (-) cable. Use the provided M8 stud terminals and ensure connections are tight and secure to prevent arcing and overheating.
4. **Parallel Connection (Optional):** If connecting multiple LOSSIGY 36V 100Ah batteries in parallel (up to 4 units), ensure all batteries are at a similar state of charge before connecting. Use appropriately sized cables for parallel connections. Consult a qualified technician if unsure.



Image 5.1: The LOSSIGY 36V 100Ah LiFePO4 battery is specifically designed for 36V golf carts, offering high energy and peak current.



Image 5.2: The battery is an excellent choice for 36-volt trolling motors, providing surge power and acceleration for marine applications.

5.3 Initial Charging

Before first use, fully charge the battery using the provided LOSSIGY 36V 25A LiFePO4 charger. Connect the charger to the battery and then to a standard AC power outlet. The charger will indicate charging status. Charging typically takes several hours depending on the initial state of charge.

5.4 Bluetooth Monitor Setup

The included monitor allows real-time tracking of battery performance. Connect the monitor's shunt according to the diagram provided with the monitor. Download the LOSSIGY Bluetooth app on your smartphone to connect to the battery's BMS and view detailed information such as voltage, current, temperature, and state of charge.

6. Operation

6.1 Daily Use

Once installed and charged, the battery is ready for use. The built-in BMS protects against overcharge, over-discharge, over-current, and short circuits, ensuring safe operation. Monitor the battery's state of charge via the included display or the Bluetooth app to avoid deep discharge.

6.2 Charging Procedures

- Always use the dedicated LOSSIGY 36V 25A LiFePO4 charger.
- Connect the charger to the battery first, then plug the charger into an AC power source.
- Ensure the charging environment is well-ventilated and within the recommended temperature range (32°F ~ 113°F).
- Disconnect the charger from the AC power source first, then from the battery, once charging is complete.

6.3 Bluetooth App Usage

The LOSSIGY Bluetooth app provides comprehensive data and control over your battery. It displays:

- Real-time voltage and current
- State of Charge (SOC) percentage
- Battery temperature
- Cycle count
- Individual cell voltages
- BMS protection status

Some models may allow turning off the charging function via the app. If your golf cart has a regenerative braking system, ensure the charging function is enabled in the app to allow the battery to receive charge from the cart and prevent heat buildup.

7. Maintenance & Storage

7.1 General Maintenance

- Regularly inspect battery terminals for corrosion or loose connections. Clean terminals as needed and ensure they are tight.
- Keep the battery clean and dry. Wipe down the exterior with a damp cloth if necessary.
- Monitor battery performance using the Bluetooth app. Report any unusual readings or behavior to customer support.



Image 7.1: LOSSIGY LiFePO4 batteries offer 2000-7000 cycles and a lifespan of up to 10 years, highlighting their durability and quality.

7.2 Long-Term Storage

If the battery will not be used for an extended period, follow these guidelines:

- Charge the battery to approximately 50-70% of its capacity before storage. Do not store fully charged or fully discharged.
- Disconnect the battery from all loads to prevent parasitic drain.
- Store the battery in a cool, dry place with a stable temperature between 10°F ~ 122°F (-12°C ~ 50°C).
- Periodically check the battery's voltage during storage (every 3-6 months) and recharge to 50-70% if necessary.

8. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, or if solutions do not resolve the issue, contact LOSSIGY customer support.

Table 8.1: Common Troubleshooting Scenarios

Problem	Possible Cause	Solution
Battery not charging	Charger not connected properly; Charger malfunction; BMS protection activated; Charging function disabled in app.	Ensure secure connections. Check charger indicator lights. Verify charging function is enabled in the Bluetooth app. If charger is faulty, contact support.
Low power output / Vehicle sluggish	Low State of Charge (SOC); Loose connections; BMS protection activated (over-discharge, over-current).	Check SOC and recharge if necessary. Inspect all cable connections for tightness. Check BMS status via Bluetooth app.
Bluetooth app not connecting	Bluetooth disabled on phone; Battery too far; App not updated; Battery off.	Ensure Bluetooth is enabled on your device and you are within range. Restart the app. Ensure the battery is powered on.
Battery overheating during regenerative braking	Charging function disabled in app (for regenerative braking systems).	Ensure the charging function is enabled in the LOSSIGY Bluetooth app to allow the battery to accept charge from the vehicle's regenerative braking system.

9. Warranty & Support

LOSSIGY is committed to providing high-quality products and excellent customer service.

- **After-Sales Service:** LOSSIGY provides 90 days of worry-free after-sales service.
- **Technical Support:** 24-hour online professional technical support is available to assist with any issues or questions you may have.

For support, please refer to the contact information provided with your purchase or visit the official LOSSIGY website. When contacting support, please have your product model and purchase date available.

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