LOSSIGY L-36V100AH+Charger+M

LOSSIGY 36V 100Ah Lithium Golf Cart Battery User Manual

Model: L-36V100AH+Charger+M

Safety Information Product Overview Setup Operating Instructions Maintenance Troubleshooting Specifications Warranty & Support

1. Safety Information

Please read and understand all safety instructions before installing or operating the LOSSIGY 36V Lithium Golf Cart Battery. Failure to follow these instructions may result in serious injury, property damage, or voiding of the warranty.

- **Do not** short-circuit the battery terminals.
- **Do not** expose the battery to fire, high temperatures, or direct sunlight for extended periods.
- **Do not** immerse the battery in water or other liquids.
- **Do not** disassemble, puncture, or modify the battery.
- Use only the recommended charger (25A charger included).
- Ensure proper ventilation during charging and operation.
- Keep out of reach of children.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection during installation.
- In case of fire, use a Class D fire extinguisher. Water can exacerbate lithium battery fires.

2. Product Overview

The LOSSIGY 36V 100Ah LiFePO4 Lithium Golf Cart Battery is a high-performance, long-lasting power solution designed for various applications including golf carts, trolling motors, marine, and other recreational vehicles. It features Grade A LiFePO4 cells, a built-in 200A Bluetooth Battery Management System (BMS), and comes with a 25A charger and a monitor for convenient use.

Key Features:

- **Grade A Cells:** Manufactured with high-quality, stable, and powerful Grade A LiFePO4 cells.
- **Long Lifespan:** Provides at least 4000 cycles.

- **Integrated BMS:** Built-in 200A smart Bluetooth BMS protects against high/low temperature, short circuit, over-current, and overload.
- **High Peak Current:** Capable of an astonishing peak current of 1000A (3-5s), suitable for most golf cart controllers.
- **Easy Installation:** Self-contained unit, easier to install and move compared to traditional lead-acid batteries.
- **Bluetooth Monitoring:** Allows real-time monitoring of battery status via a dedicated app.



Figure 2.1: The LOSSIGY 36V 100Ah Lithium Golf Cart Battery, including the battery unit, charger, and monitor.

3. Setup and Installation

3.1 Unpacking and Inspection

Carefully unpack the battery, charger, and monitor. Inspect all components for any visible damage. If any damage is found, contact customer support immediately.

3.2 Battery Dimensions and Placement

Before installation, ensure the battery fits in your intended location. The battery dimensions are L20.47 x W10.59 x H8.66 inches (520mm x 269mm x 220mm). The weight is approximately 66.9 lbs (30 kg). Ensure the mounting surface is stable and can support the battery's weight.



Figure 3.1: Detailed dimensions of the LOSSIGY 36V 100Ah battery, showing length, width, and height, along with terminal bolt size (M8 stud terminal).

3.3 Wiring Connections

Connect the battery to your golf cart or application's electrical system. Ensure all connections are secure and properly insulated. Use appropriate gauge wiring for your application to prevent overheating and ensure optimal performance. The battery features removable M8 stud terminals.

- Connect the positive (+) terminal of the battery to the positive terminal of your system.
- Connect the negative (-) terminal of the battery to the negative terminal of your system.
- If connecting multiple batteries in parallel (up to 4), ensure all batteries are at a similar state of charge before connecting. Consult a qualified technician for complex parallel installations.

3.4 Initial Charging

Before first use, fully charge the battery using the provided 25A charger. Connect the charger to the battery and then to a power outlet. The charger will indicate when charging is complete.

3.5 Bluetooth Monitor Setup

Download the LOSSIGY Bluetooth app from your smartphone's app store. Follow the in-app instructions to connect to your battery and monitor its status, including state of charge, voltage, and temperature.

4. Operating Instructions

4.1 General Use

Once installed and charged, the LOSSIGY battery is ready for use. It is designed to provide stable power for your 36V system. The built-in BMS manages the battery's performance and protects it from various electrical conditions.



Figure 4.1: The LOSSIGY 36V Lithium Battery is specifically designed for 36V golf carts, providing reliable power.

4.2 Monitoring with Bluetooth

Use the LOSSIGY Bluetooth app to monitor your battery's performance in real-time. This allows you to check the state of charge, voltage, current, temperature, and individual cell balance. Regular monitoring can help optimize battery life and

identify potential issues early.

4.3 Applications

This battery is suitable for a variety of 36V applications, including:

- Golf Carts
- Trolling Motors
- Marine Applications (Boats)
- Lawn Mowers
- Sightseeing Cars



Figure 4.2: Examples of various vehicles and applications where the LOSSIGY 36V Lithium Battery can be used.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your LOSSIGY battery.

5.1 Charging Practices

- Always use the provided 25A charger or a compatible LiFePO4 charger with the correct voltage profile.
- Avoid overcharging or undercharging the battery. The BMS will protect against these conditions, but consistent proper charging extends battery life.
- Charge the battery in a well-ventilated area.
- Recommended Charging Current: 20A.
- Charge Voltage Range: 42.6V-43.8V.
- Full Charge Voltage Range: 40.2V-41.4V.

5.2 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.
- Storage temperature range: 10°F to 122°F (-12°C to 50°C).
- Check the battery's charge level periodically during storage and recharge if necessary.

5.3 Cleaning

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



Figure 5.1: The LOSSIGY battery is built with Grade-A LiFePO4 cells for a long lifespan of 10 years and 4000-7000 cycles.

6. Troubleshooting

If you encounter issues with your LOSSIGY battery, refer to the following common problems and solutions. If the problem persists, contact LOSSIGY customer support.

Problem	Possible Cause	Solution
Battery not charging	Charger not connected properly; Charger malfunction; Battery BMS in protection mode; Faulty power outlet.	Check all connections; Test charger with another device; Disconnect and reconnect battery to reset BMS; Try a different power outlet.

Problem	Possible Cause	Solution
Low power output / Short runtime	Battery not fully charged; Overload on the battery; Cold temperature operation; Battery degradation.	Ensure battery is fully charged; Reduce load on the battery; Operate within recommended temperature range; Check battery health via Bluetooth app.
Bluetooth connection issues	Battery not powered on; App not updated; Bluetooth on device is off; Distance too far.	Ensure battery is connected and powered; Update the app; Enable Bluetooth on your device; Move closer to the battery.
Battery overheating	Excessive discharge current; Poor ventilation; High ambient temperature.	Reduce load; Ensure adequate airflow around the battery; Operate within recommended temperature range. The BMS will shut down if temperatures are too high.

7. Specifications

Parameter	Value
Total Capacity	100Ah
Nominal Voltage	38.4V
Charge Voltage Range	42.6V-43.8V
Full Charge Voltage Range	40.2V-41.4V
Recommended Charging Current	20A
BMS	200A
Peak Current	1000A (3-5s)
Max Continuous Current	100A
Max Continuous Load	3840W
Waterproof Grade	IP65
Product Size (L x W x H)	20.47 x 10.59 x 8.66 inches (520 x 269 x 220 mm)
Weight	66.9 lbs (30 kg)
Terminals	Removable M8 stud terminal
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)

8. Warranty and Support

8.1 Warranty Information

The LOSSIGY 36V 100Ah Lithium Golf Cart Battery comes with a**5-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

LOSSIGY provides 90 days of worry-free after-sales service and 24-hour online professional technical support. If you have any questions, concerns, or require assistance with your product, please contact LOSSIGY customer support through the retailer's platform or the official LOSSIGY website.

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