

LOSSIGY 12V200AH

LOSSIGY 12V 200AH LiFePO4 Lithium RV Battery Instruction Manual

Model: 12V200AH | Brand: LOSSIGY

1. PRODUCT OVERVIEW

The LOSSIGY 12V 200AH LiFePO4 Lithium RV Battery is designed for reliable power in various applications, including solar systems, RVs, and marine environments. This battery features advanced Lithium Iron Phosphate (LiFePO4) cell technology, offering a long lifespan and stable performance. It includes a built-in Battery Management System (BMS) for enhanced safety and efficiency.



Figure 1: Front view of the LOSSIGY 12V 200AH LiFePO4 Lithium RV Battery.

2. KEY FEATURES

- **Grade A Cells:** Constructed with automotive-grade A cells for higher energy density, stable performance, and greater power output.
- **Extended Lifespan:** Provides over 4000 deep cycles, offering a lifespan of approximately 10 years under typical usage conditions.
- **Integrated BMS:** Features a built-in Battery Management System with high-end chips for automatic balancing and protection against high temperature, low temperature, short circuits, over-current, and overload.
- **Lightweight Design:** Significantly lighter than traditional lead-acid batteries of similar capacity, making installation and handling easier.
- **Flexible Configuration:** Can be safely connected in parallel or series to create larger capacity battery banks, up to 48V systems.
- **Environmental Benefits:** LiFePO4 batteries are a greener alternative, free from toxic heavy metals and less prone to hazardous events compared to lead-acid batteries.

3. SPECIFICATIONS

Specification	Value
Model	12V200AH
Nominal Voltage	12 Volts
Nominal Capacity	200AH
Energy	2560Wh
Battery Cell Composition	Lithium Iron Phosphate (LiFePO4)
Cycle Life	4000+ Cycles
Estimated Lifespan	10 Years
Built-in BMS	100A
Max Continuous Charge/Discharge Current	100A
Max Discharge Current (5 seconds)	280A
Support Load Power System	1280W
Weight	45 Pounds
Dimensions (D x W x H)	6.69" x 19.05" x 9.45"
Terminal Type	Stud Terminal (M8 - 16mm)
Operating Temperature Range	-20°C to 60°C

Higher Working Voltage And Energy Density Bring You A Different Power Experience



Figure 2: Overview of the battery's superior performance characteristics, including current ratings and temperature range.

SUPERIOR PERFORMANCE

Automotive grade LIFEP04 cells ensure a lifespan of more than 4000 cycles.

100A

Maximum Continuous Charge/Discharge Current
Support 1280W Load Power System

280A

Maximum Discharge
Current 5 Seconds

-20°C-60°C

Wide Operation
Temperature Range



Figure 3: Detailed dimensions of the LOSSIGY 12V 200AH LiFePO4 battery.

4. SETUP AND INSTALLATION

The LOSSIGY 12V 200AH LiFePO4 battery is designed for ease of installation. It serves as a direct 12V replacement for many applications. Always ensure proper safety precautions are followed during installation.

4.1 Safety Guidelines

- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Ensure the battery is placed in a well-ventilated area, away from flammable materials.
- Avoid short-circuiting the battery terminals.
- Do not disassemble, puncture, or damage the battery.
- Use appropriate tools and ensure all connections are secure.

4.2 Connection Instructions

1. Identify the positive (+) and negative (-) terminals on the battery.

2. Connect the positive cable (typically red) from your system to the positive terminal of the battery.
3. Connect the negative cable (typically black) from your system to the negative terminal of the battery.
4. Ensure all connections are tight and secure using the provided nuts and bolts.
5. For parallel or series connections, consult a qualified electrician or refer to detailed wiring diagrams for your specific setup to ensure correct voltage and capacity configuration.

Your browser does not support the video tag.

Video 1: This video demonstrates the LiFePO₄ battery installed in an RV, showing its integration and a meter displaying current and voltage. It highlights the battery's suitability for RV and marine applications and its 4000+ cycle life.



Figure 4: The LOSSIGY LiFePO₄ battery is an ideal replacement for old batteries in RVs, campers, and trailers, providing reliable power for off-grid adventures.

5. OPERATING INSTRUCTIONS

The LOSSIGY LiFePO₄ battery is designed for deep cycle applications, providing consistent power output. Its built-in BMS manages charging and discharging to optimize performance and longevity.

5.1 Charging

- Use a LiFePO₄ compatible charger. The recommended charge voltage is between 14.2V and 14.6V.
- Avoid charging the battery at temperatures below 0°C (32°F) unless the battery has a low-temperature charging protection feature. Charging at low temperatures can reduce efficiency and potentially damage the battery over time.
- The BMS will protect the battery from overcharging.

5.2 Discharging

- The battery can be discharged up to 100% Depth of Discharge (DoD) without significantly impacting its lifespan, unlike lead-acid batteries.

- The BMS will protect the battery from over-discharging.
- The maximum continuous discharge current is 100A, supporting a load power system of up to 1280W.

Your browser does not support the video tag.

Video 2: This video provides an overview of the specifications and uses of a LiFePO4 deep cycle battery, emphasizing its advantages over traditional battery types.

6. MAINTENANCE

LiFePO4 batteries require minimal maintenance compared to lead-acid batteries. Follow these guidelines to ensure optimal performance and longevity:

- **Regular Inspection:** Periodically check battery terminals for corrosion or loose connections. Clean terminals if necessary.
- **Storage:** If storing the battery for an extended period, ensure it is charged to 50% capacity and stored in a cool, dry place. Recharge every 3 months to maintain optimal health.
- **Temperature:** While the battery has a wide operating temperature range, extreme temperatures can affect performance. Avoid prolonged exposure to direct sunlight or freezing conditions.
- **Cleaning:** Keep the battery clean and free of dust and debris. Use a dry cloth for cleaning.

7. TROUBLESHOOTING

If you encounter issues with your LOSSIGY LiFePO4 battery, consider the following common troubleshooting steps:

- **Battery Not Charging:**
 - Verify that the charger is compatible with LiFePO4 batteries and is functioning correctly.
 - Check all cable connections for tightness and proper polarity.
 - Ensure the ambient temperature is within the recommended charging range (above 0°C).
- **Low Voltage Output:**
 - Check the battery's State of Charge (SoC). The battery may need recharging.
 - Inspect cables and connections for any damage or looseness.
 - Ensure the load does not exceed the battery's maximum continuous discharge current.
- **Battery Not Providing Power:**
 - The BMS may have activated a protection mode (e.g., over-discharge, over-current, over-temperature). Disconnect the load and allow the battery to rest, then attempt to recharge.
 - Verify that the system connected to the battery is functioning correctly.

If these steps do not resolve the issue, please contact LOSSIGY customer support for further assistance.

8. WARRANTY AND SUPPORT

LOSSIGY stands behind the quality of its products. This battery comes with a **5-year warranty**, covering defects in materials and workmanship under normal use.

For any questions, technical support, or warranty claims, please contact LOSSIGY customer service. We offer 90 days of worry-free after-sales service and 24-hour online professional technical support to provide the fastest possible solution.

WARRANTY TERMS AND AFTER-SALES SERVICE



FIVE-YEAR WARRANTY

The order takes effect immediately upon completion



24-hour online customer service



Dissatisfied with the product or defective product after receiving it contact us for replacement or full refund



**PROVIDE PROFESSIONAL
TECHNICAL SUPPORT UNTIL
IT IS PUT INTO NORMAL USE**

Figure 5: LOSSIGY's commitment to customer satisfaction, including warranty and support services.