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› Ingeosolly 6V 6Ah LiFePO4 Battery User Manual

Ingeosolly IN-6V6Ah

Ingeosolly 6V 6Ah LiFePO4 Battery User Manual

Model: IN-6V6Ah

1. INTRODUCTION

Thank you for choosing the Ingeosolly 6V 6Ah LiFePO4 Battery. This manual provides essential information for the safe and efficient use, installation, and maintenance of your new battery. Please read this manual thoroughly before operating the product and retain it for future reference.



Figure 1: Front view of the Ingeosolly 6V 6Ah LiFePO4 Battery.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the battery and connected devices:

- Do not short circuit the battery terminals.
- Use only the charger provided or a charger specifically designed for LiFePO4 batteries with appropriate voltage and current ratings.
- Do not expose the battery to temperatures above 60°C (140°F) or below -20°C (-4°F).
- Do not disassemble, puncture, or modify the battery.
- Keep the battery away from water, fire, and corrosive substances.
- Ensure proper ventilation when charging or discharging.
- If the battery emits an unusual odor, heat, or changes shape, discontinue use immediately and contact support.

GRADE A CELLS & MULTIPACT PROTECTIONS BMS

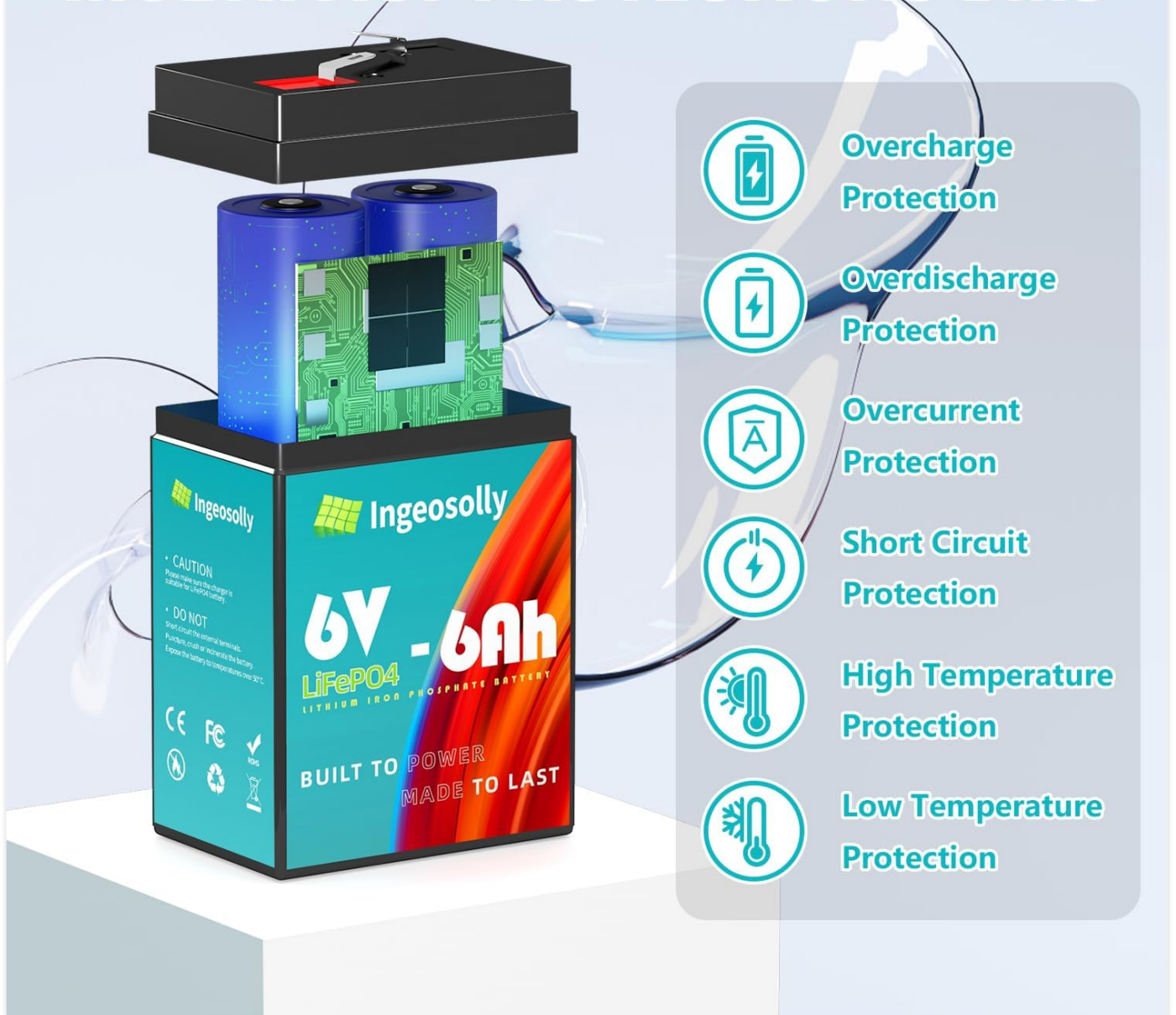


Figure 2: The battery features a Smart Battery Management System (BMS) for protection against overcharge, over-discharge, overcurrent, short circuit, and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x Ingeosolly 6V 6Ah LiFePO4 Deep Cycle Battery
- 1x Battery Charger (compatible with LiFePO4)
- 1x Set of Battery Connectors for installation

4. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Nominal Voltage	6.4V (Operating range: 5-7.3V)
Capacity	6000mAh (6Ah)
Energy	38.4Wh
Battery Type	Lithium Iron Phosphate (LiFePO4)
Cycle Life	2000+ cycles
Max Continuous Charge Current	6A (Recommended: 3A)
Max Continuous Discharge Current	6A
Pulse Discharge Current	Up to 3C
Dimensions (L x W x H)	10cm x 6.9cm x 4.5cm (3.97in x 2.7in x 1.77in)
Weight	0.4kg (0.88lbs)
Operating Temperature	-20°C to 60°C
BMS Protection	Overcharge, Over-discharge, Overcurrent, Short Circuit, High/Low Temperature

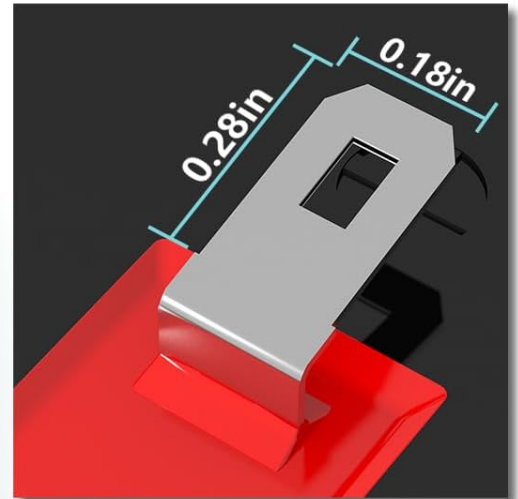
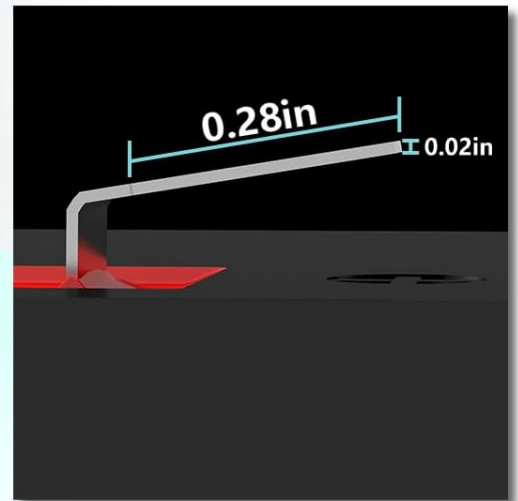


Figure 3: Physical dimensions of the Ingeosolly 6V 6Ah LiFePO4 Battery.

5. SETUP

5.1 Initial Charging

1. Connect the provided charger to a standard wall outlet.
2. Connect the charger's output to the battery terminals using the provided connectors. Ensure correct polarity (red to positive, black to negative).
3. The charger's indicator light will typically show red during charging and turn green when charging is complete.
4. Allow the battery to fully charge before first use.

5.2 Installation

When replacing an existing battery or installing in a new application:

- Ensure the device is powered off before connecting the battery.
- Connect the positive (+) terminal of the battery to the positive terminal of your device.
- Connect the negative (-) terminal of the battery to the negative terminal of your device.

- Secure all connections to prevent accidental disconnections or short circuits.

6. OPERATING INSTRUCTIONS

6.1 General Use

The Ingeosolly 6V 6Ah LiFePO₄ battery is suitable for a wide range of applications, including:

- Emergency lights and lanterns
- Kids' ride-on cars and electric vehicles
- Deer game feeders and pet feeders
- Door openers and exit signs
- UPS backup power solutions
- Fire and security systems



Figure 4: Examples of common applications for the Ingeosolly 6V 6Ah LiFePO₄ Battery.

6.2 Series and Parallel Connections

This battery can be connected in series or parallel to achieve higher voltage or capacity:

- **Series Connection:** Connect up to 4 identical Ingeosolly 6V 6Ah LiFePO4 batteries in series to increase the total voltage (e.g., two batteries in series provide 12V). Ensure all batteries are of the same model and charge level before connecting.
- **Parallel Connection:** Connect batteries in parallel to increase the total capacity (Ah) while maintaining the same voltage. Ensure all batteries are of the same model and charge level before connecting.

Always consult a qualified professional if you are unsure about series or parallel connections.

7. MAINTENANCE

7.1 Charging

- Always use a dedicated LiFePO4 charger. Using chargers designed for other battery chemistries (e.g., lead-acid) can damage the battery or pose safety risks.
- Charge the battery in a well-ventilated area.
- Avoid overcharging or deep discharging the battery, although the integrated BMS provides protection against these conditions.

7.2 Storage

- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, charge the battery to approximately 50-70% of its capacity.
- Periodically check the battery's charge level during long-term storage and recharge if necessary to prevent deep discharge.

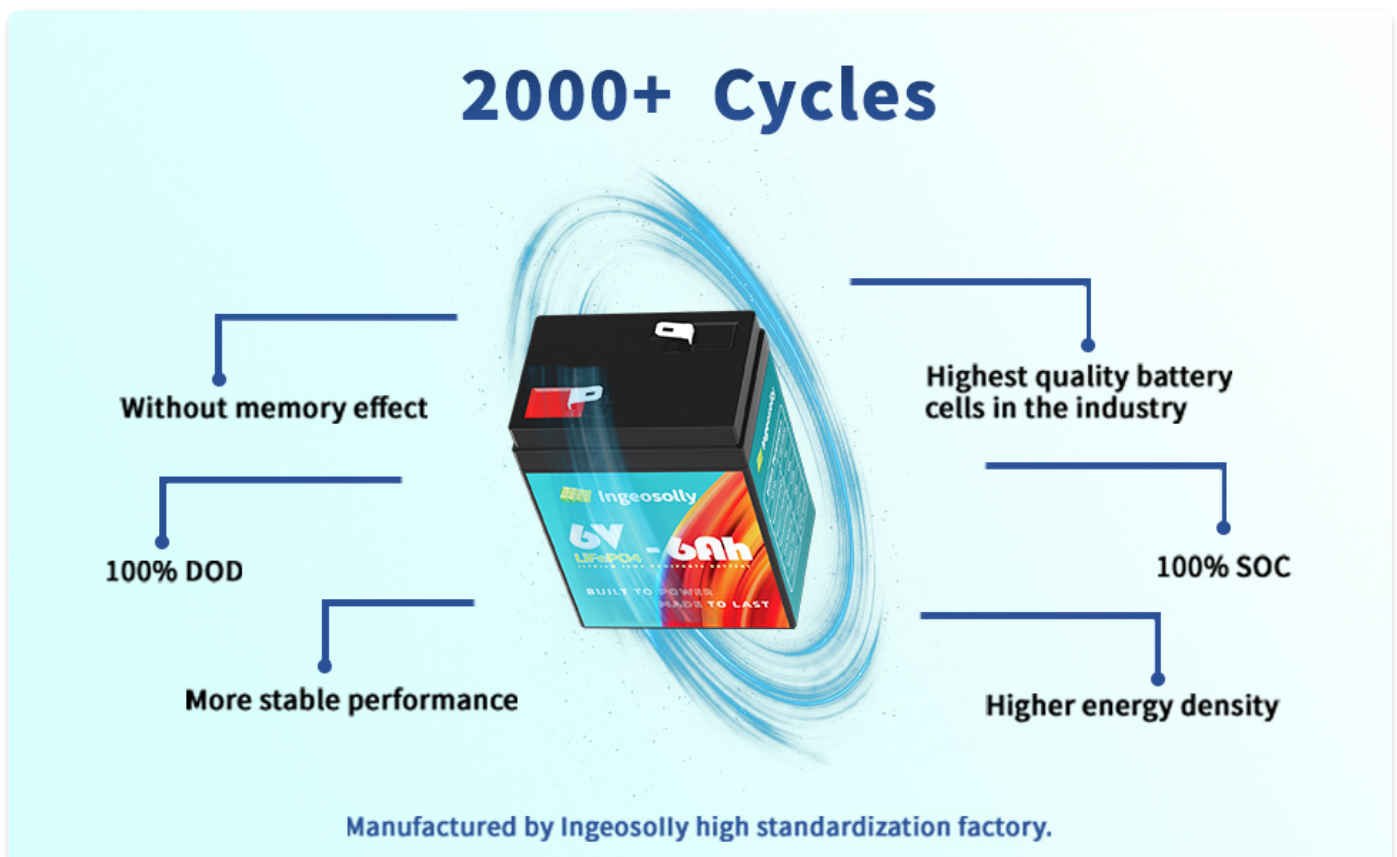


Figure 5: The LiFePO4 battery offers 2000+ cycles, no memory effect, 100% Depth of Discharge (DOD), stable performance, and high energy density.

8. TROUBLESHOOTING

If you encounter issues with your Ingeosolly LiFePO4 battery, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Battery not charging	Charger not connected, faulty charger, battery deeply discharged, BMS protection activated.	Ensure charger is properly connected and powered. Try a different compatible charger. If deeply discharged, the BMS might need a specific charger to reactivate. Contact support if issues persist.
Battery not providing power	Loose connections, battery discharged, BMS protection activated, faulty device.	Check all connections for tightness. Recharge the battery. If the BMS has activated due to over-discharge or overcurrent, it may need to be reset by connecting to a charger. Test the battery with another compatible device if possible.
Reduced runtime	Battery not fully charged, aging battery, high power draw from device.	Ensure the battery is fully charged before use. While LiFePO4 batteries have a long cycle life, capacity can gradually decrease over many years. Consider the power requirements of your device.
Battery gets hot during use/charging	Overload, short circuit, faulty charger, high ambient temperature.	Discontinue use/charging immediately. Check for short circuits in the wiring or device. Ensure the charger is compatible. Operate within specified temperature ranges. If overheating persists, contact support.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Ingeosolly provides a **FIVE-Year Warranty** for this battery. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

If you experience any quality problems with the product or require technical assistance, please contact Ingeosolly customer support directly. You can typically find a "Contact Seller" option on your order page or by visiting the Ingeosolly brand store on Amazon.

For the quickest resolution, please provide your order number and a detailed description of the issue when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question