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- › [Redodo](#) /
- › [Redodo LiFePO4 12V 100Ah Battery Instruction Manual](#)

Redodo 12V100Ah

Redodo LiFePO4 12V 100Ah Battery User Manual

Model: 12V100Ah

1. INTRODUCTION

The Redodo 12V 100Ah LiFePO4 rechargeable battery is engineered for deep cycle applications, offering exceptional longevity and stable performance. This battery is equipped with an advanced Battery Management System (BMS) to ensure safety and efficiency. It is an ideal power solution for a wide range of applications, including recreational vehicles (RVs), camping setups, off-grid solar power systems, and marine vessels.



Front view of the Redodo 12.8V 100Ah LiFePO4 battery, showcasing its compact design and branding.

2. PRODUCT FEATURES

- **Extended Cycle Life:** The LiFePO₄ 100Ah battery offers an impressive cycle life of 4000 to 8000 cycles, translating to a lifespan of up to 10 years.
- **High-Quality Cells:** Utilizes A-grade LiFePO₄ cells for superior stability, higher energy density, and reduced weight.
- **Robust Performance:** Designed for high-temperature operation, delivering strong power output with a low self-discharge rate.
- **Advanced Technology:** Manufactured with cutting-edge industrial processes to ensure reliable performance and sufficient capacity.
- **Capacity Expansion:** Supports both series and parallel connections for increased voltage or capacity.
- **No Memory Effect:** Can be charged and discharged repeatedly without any memory effect, allowing immediate use after charging regardless of current charge state.
- **Environmental Friendly:** A green battery solution, free from heavy metals or rare metals, making it highly environmentally conscious.
- **Integrated BMS:** Features a Battery Management System for enhanced safety and protection.

3. SETUP

Before initial use, ensure the battery is fully charged. Connect the battery to your system using appropriate cables and connectors, ensuring correct polarity (positive to positive, negative to negative). Always use properly sized cables to handle the expected current draw.

REDODO® LiFePO4 BATTERIE



Klemme-Spezifikationen
Klemme-9/6 Zoll
versilberte Kupferklemmen
geringerer Innenwiderstand
gewährleistet Hochstrom-Entladeleistung

Diagram illustrating the physical dimensions (length, width, height) of the Redodo LiFePO4 battery and detailed specifications for the battery terminals, including bolt size.

For solar installations, connect the battery to an MPPT charge controller, which then connects to your solar modules. Ensure all connections are secure and insulated.

SCHNELLE LIEFERUNG



Lieferzeit:
3-7 Werktage in der EU

Dies ist die ungefähre Zeit, die nur als Referenz dient.



24 Std 3-7 Online-
Kundendienst



Technische
Unterstützung



Rückgaberecht



deutsches Lager

Schematic showing how multiple Redodo LiFePO4 batteries can be connected in series and parallel (up to 4P4S configuration) with solar panels, an MPPT charge controller, and an inverter to power various loads.

Note: This battery is not designed for use as a starter battery. For starter battery applications, please consult the manufacturer.

4. OPERATING

The Redodo LiFePO4 battery can be used to power various 12V DC appliances directly or through an inverter for AC loads. Its high energy density ensures long-term reuse and efficient power delivery.

Capacity Expansion: This battery supports expansion by connecting multiple units in series or parallel to meet higher voltage or capacity requirements. For series connections, ensure all batteries are of the same voltage and capacity. For parallel connections, ensure all batteries are of the same voltage and capacity and are at a similar state of charge before connecting.

LADEZEIT UM 1/2 REDUZIERT BIS ZU 2-MAL LÄNGERE LAUFZEIT

Redodo 12V 100Ah Batterie

0,2C Laderate = 20A
5 Stunden Ladezeit

Blei-Säure-Batterie 12V 100Ah

0,2C Laderate = 10A
10 Stunden Ladezeit



Laufzeit ≈ 2,56 Stunden



Laufzeit ≈ 1,28 Stunden

Kühlschrank (500 W)

Visual comparison showing that the Redodo 12V 100Ah battery charges twice as fast and provides longer runtime for appliances like a 500W refrigerator compared to a lead-acid battery.

The battery's internal Battery Management System (BMS) protects against overcharge, over-discharge, over-current, and short circuits, ensuring safe operation.

5. MAINTENANCE

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

- **Charging:** Use a LiFePO4 compatible charger. Avoid overcharging or deep discharging beyond the BMS limits. The battery can be charged and discharged repeatedly without memory effect.
- **Storage:** If storing the battery for an extended period, ensure it is charged to approximately 50-70% of its capacity. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Keep the battery terminals clean and free from corrosion. Use a dry cloth to wipe down the battery casing.

- **Inspection:** Periodically inspect the battery and its connections for any signs of damage or loose connections.

6. TROUBLESHOOTING

The integrated Battery Management System (BMS) provides protection against common issues. If the battery stops functioning, consider the following:

- **No Power Output:** Check all connections for proper seating and polarity. The BMS may have activated a protection mode (e.g., over-discharge, over-current). Try disconnecting the load and recharging the battery.
- **Battery Not Charging:** Ensure the charger is compatible with LiFePO4 batteries and is functioning correctly. Check charger connections. The BMS might have activated over-charge protection if the battery was already full.
- **Reduced Performance:** Ensure the battery is fully charged. Verify that the load is within the battery's specified output limits.

If issues persist, refer to the warranty and support section for assistance.

7. SPECIFICATIONS

Specification	Value
Brand	Redodo
Item Model Number	12V100Ah
Battery Composition	Lithium-phosphate (LiFePO4)
Voltage	12.8 Volts
Amperage	100 A
Item Weight	11 Kilograms
Product Dimensions (L x W x H)	33 x 17.3 x 21.6 cm
Reusability	Rechargeable
Number of Batteries	1 Lithium-ion (included)
Manufacturer	zooms



Images of the product packaging, displaying shipping labels, safety warnings, and certifications such as CE, FC, and RoHS, indicating compliance with international standards.

8. WARRANTY AND SUPPORT

Redodo provides a **5-year warranty** for its 12V 100Ah LiFePO4 batteries, ensuring peace of mind regarding your investment.

Our dedicated service team is available to provide professional information and guidance. We aim to respond quickly to resolve any issues you may encounter, analyzing customer problems within 24 hours to assist with solutions.

For support, please contact our customer service team. Refer to the product packaging or manufacturer's website for contact details.

