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Redodo Bluetooth 12V 140Ah group31 low temp

Redodo Smart Bluetooth 12V 140Ah LiFePO4 Battery Instruction Manual

Model: Bluetooth 12V 140Ah group31 low temp

1. PRODUCT OVERVIEW

The Redodo Smart Bluetooth 12V 140Ah LiFePO4 Battery is a high-performance lithium iron phosphate battery designed for various applications including RVs, marine, boats, solar systems, and off-grid setups. Featuring an upgraded 150A Battery Management System (BMS) and Bluetooth app monitoring, this battery offers enhanced safety, longevity, and real-time data access.

Key Features:

- **Enhanced Capacity:** Upgraded 12V 140Ah Group31 LiFePO4 battery, offering 28.6% more capacity than standard 100Ah models in the same Group 31 size.
- **Bluetooth App Monitoring:** Monitor key metrics such as voltage, current, power, and capacity in real-time via a dedicated Bluetooth app. Remote control functions are also available within a 10m range.
- **Extended Lifespan:** Designed for a 10-year lifespan, significantly outperforming traditional lead-acid batteries (2-3 years).
- **Upgraded 150A BMS:** Features a robust Battery Management System with moisture-proof, salt-spray proof, and low-temperature cut-off functions, ensuring higher performance and safety for RV enthusiasts.
- **Versatile & Extensible:** Supports expansion up to 48V 560Ah, delivering 28.672kWh for diverse applications including trolling motors, marine, RV, solar, camping, and home backup power.

2. WHAT'S IN THE BOX

Upon unboxing your Redodo Smart Bluetooth 12V 140Ah LiFePO4 Battery, please verify that all components listed below are present:

- 1x Bluetooth 12.8V 140Ah LiFePO4 Battery with Low Temp Cut Off
- 2x Insulating Caps for Bolts (Red and Black)
- 2x M8- 5/8" Terminal Bolts

WHAT'S IN THE BOX

12V 140Ah Smart Bluetooth LiFePO4 Battery **1**

2* M8 Terminal Bolts **2**

Flat Washer **3**

2* Insulation Caps for Bolts **4**

Product Manual **5**

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If OT terminals are attached directly with screws and their thickness is less than 2mm add gaskets for lock attachment to prevent loosening and overheating.

Figure 2.1: The battery box includes the battery, insulating caps, and M8 terminal bolts.

3. SETUP & INSTALLATION

Proper setup and installation are crucial for optimal performance and safety. Please follow these guidelines:

3.1 Initial Activation & Charging:

For first-time use or after a shutdown, the battery may be in a powered-off state. To activate, charge the battery for 3-10 seconds using a LiFePO4 charger or an MPPT (Maximum Power Point Tracking) controller with a lithium activation function.



For first-time use or after shutdown, charge the battery for 3-10 seconds using a LiFePO4 charger or MPPT with lithium activation to turn on the battery.



Not suitable
for starter batteries or golf carts.



Connect batteries of the same brand, type, voltage, amps, BMS and age (within 1 months).



If OT terminals are attached directly with screws and their thickness is less than 2mm add gaskets for lock attachment to prevent loosening and overheating.

Figure 3.1: Initial charging and connection guidelines for the battery.

3.2 Terminal Connection:

- Use the provided M8- 5/8" terminal bolts and insulating caps.
- Ensure connections are tight to prevent loosening and overheating.
- If OT terminals are attached directly with screws and their thickness is less than 2mm, add gaskets for lock attachment to prevent loosening and overheating.

3.3 Parallel/Series Connection:

This Redodo lithium battery supports expansion. When connecting multiple batteries, ensure they are of the same brand, type, voltage, amps, BMS, and age (within 1 month). The battery supports expansion up to 48V 560Ah.

3.4 Important Considerations:

- This battery is **not suitable** for starter batteries or golf carts.

4. OPERATING INSTRUCTIONS

4.1 Bluetooth App Monitoring:

Download the dedicated Bluetooth app from the App Store or Google Play. Once installed, connect to your battery via

Bluetooth (within 10m range) to access real-time monitoring data and remote control functions.

Smart Bluetooth Remote Control at Your Fingertips



Monitor Capacity, Voltage, SOC



Manage Discharge, Power Off



Battery Health Diagnostics



Download on the App Store

GET IT ON Google Play

Bluetooth batteries are shipped in a powered-off state. To activate, connect a LiFePO4 charger or MPPT with a lithium activation function.

Figure 4.1: Monitor battery capacity, voltage, state of charge (SOC), and manage discharge via the Bluetooth app.

5. SAFETY & PROTECTION

The Redodo Smart Bluetooth 12V 140Ah LiFePO4 Battery is equipped with an advanced 150A Battery Management System (BMS) to ensure safe and reliable operation. The BMS provides multiple layers of protection:

- **Low Temperature Cut-Off:** Automatically stops charging below 32°F (0°C) and stops discharging below -4°F (-20°C) to protect the battery in cold environments. Charging recovery begins above 41°F (5°C).
- **Overcurrent Protection:** Prevents damage from excessive current draw.
- **Overcharge Protection:** Safeguards against overcharging, extending battery life.
- **Overdischarge Protection:** Prevents deep discharge, which can damage the battery.
- **Short Circuit Protection:** Automatically disconnects in case of a short circuit.
- **Moisture-Proof & Salt-Spray Proof:** Enhanced durability for various environmental conditions.

Low-Temp Cutoff Protection

Safer charging & discharging to conquer the cold



Figure 5.1: Low-temperature cut-off protection ensures safer charging and discharging in cold conditions.

6. APPLICATIONS

The Redodo Smart Bluetooth 12V 140Ah LiFePO4 Battery is designed for a wide range of applications:

- **Recreational Vehicles (RVs):** Provides reliable power for extended travel.
- **Marine & Boat:** Ideal for marine applications, including trolling motors.
- **Solar Energy Systems:** Efficient energy storage for solar setups.
- **Off-Grid Living:** A dependable power source for remote locations.
- **Camping:** Portable and long-lasting power for outdoor adventures.
- **Home Backup:** Can be integrated into home backup power solutions.

Versatile for Any Use



Figure 6.1: The battery's versatility makes it suitable for numerous power needs.

7. SPECIFICATIONS

Feature	Specification
Brand	Redodo
Model	Bluetooth 12V 140Ah group31 low temp
Battery Cell Composition	Lithium-Phosphate (LiFePO4)
Voltage	12.8 Volts
Capacity	140Ah
BMS	150A (Upgraded)
Product Dimensions	6.77"D x 13"W x 8.5"H
Resistance	40 Milliohms

Feature	Specification
Terminal	M8
Automotive Fit Type	Universal Fit
Vehicle Service Type	Boat, Kayak, Marine, RV, Trolling Motor

8. WARRANTY & SUPPORT

Redodo is committed to providing excellent customer service and product reliability.

- **10 Years Lifespan:** The Redodo LiFePO4 battery is designed for a long operational life.
- **24 Hours One-on-One Service:** If you have any questions about the energy system or product, please contact Redodo customer support for assistance.