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Renogy RNG-BATT-AGM12-200

Renogy Deep Cycle AGM Battery 12 Volt 200Ah User Manual

Model: RNG-BATT-AGM12-200

1. INTRODUCTION AND OVERVIEW

The Renogy Deep Cycle AGM Battery 12 Volt 200Ah is a high-performance, maintenance-free power solution designed for various applications including RVs, camping, cabins, marine vessels, and off-grid systems. Manufactured with thick absorbent Glass Mat (AGM) separators and advanced valve-regulated technology, this battery eliminates concerns about acid leakage and frequent maintenance.

Key features include:

- **Maintenance-Free:** No need for electrolyte checks or acid top-ups.
- **Excellent Discharge Performance:** Proprietary quinary alloy plates and specially treated plate grids allow for low internal resistance and high discharge currents, up to 10 times the battery's rated capacity.
- **Long Shelf Life:** High-purity materials reduce the monthly self-discharge rate to below 3% at 77°F (25°C), which is significantly lower than flooded counterparts.
- **Wide Operation Temperature Range:** An improved electrolyte formula ensures stable battery capacity and outstanding discharge performance even at low temperatures below 32°F (0°C).



2. SETUP

2.1 What's in the Box

Your Renogy Deep Cycle AGM Battery package includes:

- 12V 200Ah Deep Cycle AGM Battery
- M8 Terminal Bolts

2.2 Installation Guidelines

For optimal performance and safety, adhere to the following installation recommendations:

- It is highly recommended to install the battery upright.
- Installing the battery on its side is permissible only if special circumstances require it.
- **DO NOT** install the battery upside down.

2.3 Connection Types

Renogy Deep Cycle AGM batteries can be connected in series and/or parallel to meet your system's voltage and capacity requirements. It is recommended to connect batteries of the same type (AGM), capacity (Ah), and voltage (V).

Adapt Better to Extreme Temperatures

Excellent discharge performance ranging from -4°F to 140°F.



Figure 2: The Renogy AGM battery is designed to adapt to extreme temperatures, performing well from -4°F to 140°F.

Video 1: Renogy 12V AGM Battery Introduction. This video provides an overview of the battery's features and basic installation concepts, including series and parallel connections.

3. OPERATING

The Renogy Deep Cycle AGM Battery is engineered for reliable power delivery across a wide range of conditions.

- **Discharge Performance:** Capable of high discharge currents up to 10 times its rated capacity, making it suitable for powering most home appliances.
- **Temperature Resilience:** Maintains stable performance in temperatures ranging from -4°F to 140°F.
- **Self-Discharge Rate:** Features a low monthly self-discharge rate of less than 3% at 77°F (25°C), ensuring power retention even during periods of inactivity.
- **Cycle Life:** The length of the battery's cycle service life is primarily affected by the depth of discharge, ambient temperature, discharge rate, and the method of recharging. For optimal longevity, it is

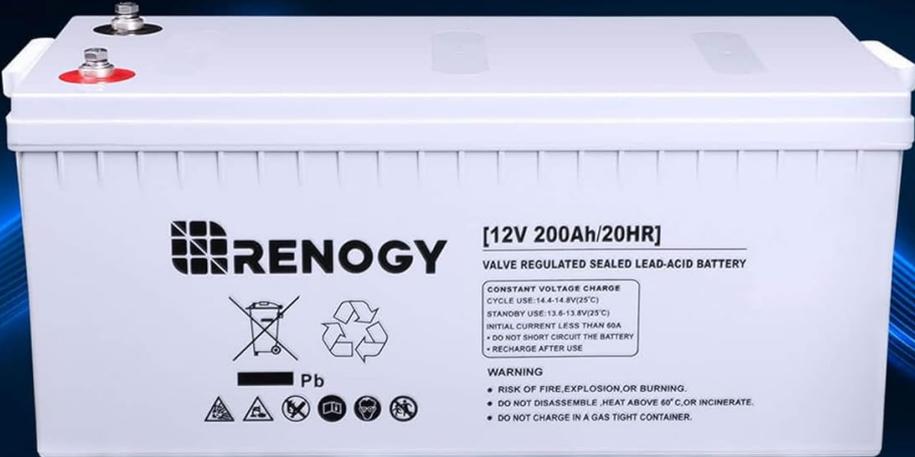
recommended not to exceed 50% depth of discharge (DOD).

Long Shelf Life

When not in use, 1 month later



97%



Renogy Tips
For a longer battery life, it is recommended to fully charge them once every three months.

Figure 3: The battery maintains 97% charge even after 1 month of non-use, highlighting its excellent shelf life.

4. MAINTENANCE

The Renogy Deep Cycle AGM Battery is designed to be maintenance-free, eliminating the need for regular fluid checks or acid top-ups. This sealed design prevents acid leakage and reduces the need for frequent attention.

For a longer battery life, it is recommended to fully charge the battery once every three months, especially during periods of storage or infrequent use.

5. TROUBLESHOOTING

Due to its sealed and integrated internal structure, the Renogy Deep Cycle AGM Battery requires minimal troubleshooting. It is designed for simple operation, making it ideal for solar system beginners.

If you experience unexpected performance, ensure all connections are secure and correctly wired according to the setup instructions. Verify that your charging sources (solar panels, charge controller, inverter) are functioning correctly and providing the appropriate voltage and current for AGM batteries.

6. SPECIFICATIONS

Specification	Value
Manufacturer	Renogy
Brand	Renogy
Model	12 Volt 200AH
Item Weight	127.9 pounds
Product Dimensions	20.5 x 9.4 x 8.8 inches
Country of Origin	China
Item model number	RNG-BATT-AGM12-200
Batteries Required	1 12V batteries required. (included)
Is Discontinued By Manufacturer	No
Manufacturer Part Number	RNG-BATT-AGM12-200
Amperage	50 Amps
Voltage	12 Volts
Battery Cell Composition	Lead-Acid, AGM
Battery Capacity	200 Amp Hours
Recommended Uses For Product	RV



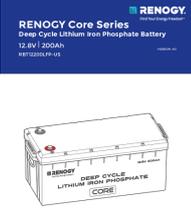
Figure 4: Detailed dimensions of the Renogy 12V 200Ah AGM battery: 20.6 x 9.4 x 8.8 inches.

7. WARRANTY AND SUPPORT

Your Renogy Deep Cycle AGM Battery is backed by a 30-day refund/replacement policy when purchased from Amazon.

For any product-related inquiries or technical support, please contact Renogy directly:

- **Phone:** 1-909-287-7111 (Monday-Friday, 8:30 AM - 5:00 PM PST)
- **Website:** [HTTPS://WWW.RENOGY.COM](https://www.renogy.com)
- **Email:** TECHSUPPORT@RENOGY.COM

 <p>BATTERY MONITOR RENOGY Version 2.0</p>	<p>Renogy Battery Monitor RBM500-G1 User Manual and Technical Specifications</p> <p>Comprehensive user manual and technical guide for the Renogy Battery Monitor RBM500-G1. Learn about installation, operation, calibration, settings, troubleshooting, and specifications for monitoring battery voltage, current, and capacity.</p>
 <p>RENOGY Deep Cycle AGM Battery 12V 100Ah/200Ah RNG-BATT-AGM12-100 RNG-BATT-AGM12-200</p> <p>USER MANUAL</p>	<p>Renogy 12V 100Ah/200Ah Deep Cycle AGM Battery User Manual</p> <p>Comprehensive user manual for Renogy 12V 100Ah and 200Ah Deep Cycle AGM Batteries (RNG-BATT-AGM12-100, RNG-BATT-AGM12-200). It covers key features, installation procedures, series/parallel connections, charging/discharging parameters, specifications, safety guidelines, and troubleshooting FAQs.</p>
 <p>RENOGY Core Series Mini Deep Cycle Lithium Iron Phosphate Battery 12.8V 200Ah RFT200LFP-01</p> <p>USER MANUAL</p>	<p>Renogy Core Series 12.8V 200Ah LiFePO4 Battery User Manual</p> <p>User manual for the Renogy Core Series 12.8V 200Ah Mini Deep Cycle Lithium Iron Phosphate (LiFePO4) Battery. Details installation, operation, safety, maintenance, troubleshooting, and specifications for off-grid and RV applications.</p>
 <p>RENOGY Core Series Deep Cycle Lithium Iron Phosphate Battery 12.8V 200Ah RFT200LFP-02</p> <p>USER MANUAL</p>	<p>Renogy Core Series 12.8V 200Ah Deep Cycle Lithium Iron Phosphate Battery User Manual</p> <p>This user manual provides comprehensive instructions for the Renogy Core Series 12.8V 200Ah Deep Cycle Lithium Iron Phosphate Battery, covering installation, operation, maintenance, safety precautions, and troubleshooting for optimal performance and longevity.</p>
 <p>BATTERY RENOGY BLUETOOTH LITHIUM IRON PHOSPHATE 12V 200Ah</p>	<p>Renogy 12V 200Ah Bluetooth Lithium Iron Phosphate Battery User Manual</p> <p>Comprehensive user manual for the Renogy 12V 200Ah Lithium Iron Phosphate Battery with Bluetooth, covering installation, operation, maintenance, safety, troubleshooting, and specifications.</p>

User Manual of Product 1:
Renogy 200 Watt 12 Volt Monocrystalline PV Solar Panel Kit
with Anderson SOL200PMA Charge Controller and
Mounting Brackets for RV, Boat, Trailer, Camp, Marine,
Off-Grid Solar Power System
User Manual of Product 2:
Renogy 30A 50 amp ANL Fuse

[Renogy Off-Grid Solar Kit User Manual: Installation, Wiring, and Mounting Guide](#)

Comprehensive user manual for Renogy Off-Grid Solar Kits, covering installation, wiring, mounting systems (Z-Bracket, Rail, Pole), battery configurations, safety precautions, and ANL fuse usage for RVs, boats, and off-grid power systems.