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VEVOR 36V 105Ah Golf Cart Lithium Battery

VEVOR 36V 105Ah LiFePO4 Golf Cart Battery User Manual

Model: 36V 105Ah Golf Cart Lithium Battery

1. Introduction

Thank you for choosing the VEVOR 36V 105Ah LiFePO4 Golf Cart Battery. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new battery. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Instructions

- Always wear appropriate personal protective equipment (PPE) including safety glasses and insulated gloves when handling batteries.
- Ensure the golf cart is turned off and disconnected from any power source before installation or maintenance.
- Do not short circuit the battery terminals.
- Do not crush, puncture, or incinerate the battery.
- Do not disassemble the battery. Internal components are not user-serviceable.
- Use only the suitable lithium charger provided or recommended by VEVOR for 36V batteries with an output voltage of 30V to 43.8V.
- Recharge the battery every 90 days if not in use to maintain optimal performance.
- This battery is not designed for cranking applications.
- Keep the battery away from children and pets.

3. Product Overview

The VEVOR 36V 105Ah LiFePO4 Golf Cart Battery is designed to provide reliable and long-lasting power for your golf cart. It features automotive-grade LiFePO4 cells, a 200A Battery Management System (BMS), and offers convenient monitoring via an LCD display and mobile application.

Key Features:

- **Exceptional Performance:** EV-grade LiFePO4 cells provide a range of up to 50 miles on a single charge.
- **Easy Hill Climbing:** 2C discharge rate with continuous discharge at 200A, maximum discharge of 400A (35S), and peak discharge of 600A (3S).
- **Outstanding Lifespan:** Over 4000 cycles, outlasting traditional lead-acid batteries.

- **Real-Time Monitoring:** 2.3-inch LCD screen and mobile app for instant battery information and control.
- **Fast Charging:** Includes a 43.8VDC 20A charger, fully charging the battery in approximately 5 hours.
- **Durable Design:** Compact, integrated design with an ABS casing and IP65 waterproof rating.

What's in the Box:

- 1 x Golf Cart Battery
- 1 x 43.8VDC 20A Charger
- 1 x 2.3-inch LCD Display
- Necessary connection cables and mounting hardware



Figure 1: VEVOR 36V 105Ah LiFePO4 Golf Cart Battery with key dimensions (20.5 x 10.6 x 9.4 inches).



Figure 2: The VEVOR 36V 105Ah LiFePO4 Golf Cart Battery shown with its 2.3-inch LCD display and 43.8VDC 20A charger.

▶ **Watch video online**

VEVOR Golf Cart Battery

Video 1: An overview of the VEVOR Golf Cart Battery, highlighting its features and benefits.

4. Setup & Installation

This battery is designed as a direct replacement for traditional lead-acid batteries in 36V golf carts. Professional installation is recommended if you are unfamiliar with golf cart electrical systems.

Installation Steps:

1. **Safety First:** Ensure the golf cart is powered off and the main power switch (if available) is in the OFF position. Disconnect the negative terminal first, then the positive terminal of your existing battery system.
2. **Remove Old Batteries:** Carefully remove the old lead-acid batteries. Note their configuration (series/parallel) for reference, though this LiFePO4 battery is an integrated unit.
3. **Position New Battery:** Place the VEVOR LiFePO4 battery in the battery compartment. Its compact design often allows for easier fitment. Secure it using appropriate straps or brackets to prevent movement during operation.
4. **Connect Battery:** Connect the positive (+) terminal of the LiFePO4 battery to the golf cart's positive system cable. Connect the negative (-) terminal of the LiFePO4 battery to the golf cart's negative system cable. Ensure all connections are tight and secure.
5. **Connect Display:** Plug the 2.3-inch LCD display into the designated port on the battery. Mount the display in a convenient location for monitoring.
6. **Initial Power On:** Press the power button on the battery to turn it on. The LCD display should illuminate and show battery status.
7. **Test System:** Turn on the golf cart's key switch and test basic functions to ensure proper operation.

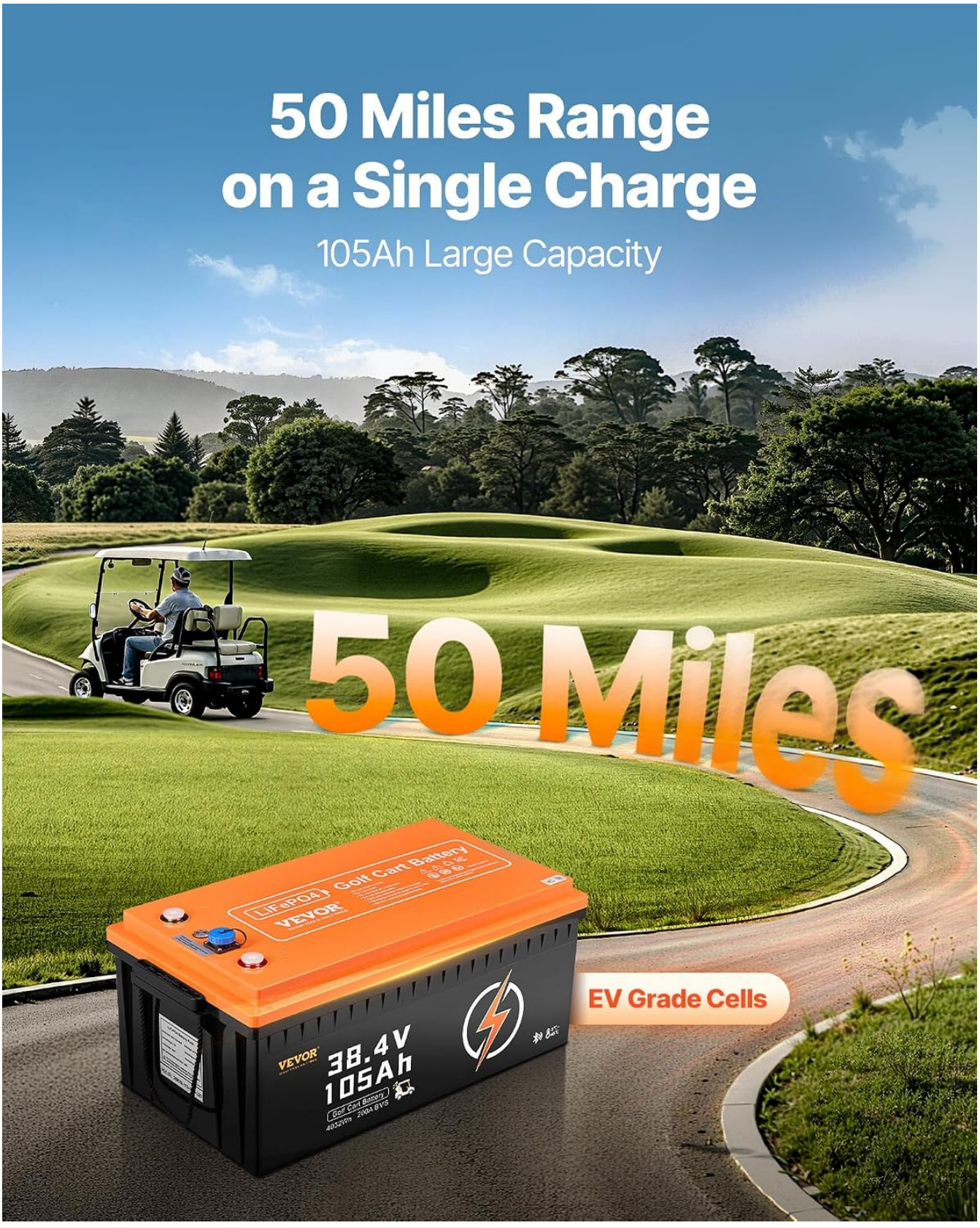

Figure 3: The VEVOR 36V 105Ah LiFePO4 Golf Cart Battery installed in a golf cart, ready for use.



Figure 4: A golf cart powered by the VEVOR 36V 105Ah LiFePO4 battery demonstrating its ability to climb hills with strong discharge current.

5. Operating Instructions

Powering On/Off:

- To power on the battery, press the green power button located on the battery casing. The button will illuminate.
- To power off the battery, press and hold the green power button for a few seconds until the light turns off.

Monitoring Battery Status:

The battery status can be monitored using the included 2.3-inch LCD display or via the mobile application.

- **LCD Display:** The display shows real-time data such as voltage, current, temperature, and time to empty. Use the page buttons to navigate through different information screens.
- **Mobile App:** Download the VEVOR battery monitoring app from your device's app store. Connect to the battery via Bluetooth to view detailed battery information, charge/discharge status, and control certain functions.



Figure 5: Real-time battery monitoring via the 2.3-inch LCD display and the dedicated mobile application.

Charging the Battery:

Use the provided 43.8VDC 20A charger to recharge the battery.

1. Ensure the battery is powered on.
2. Connect the charger's aviation-grade connector to the battery's charging port.
3. Plug the charger into a standard AC power outlet.
4. The charger's indicator light will show the charging status. A full charge typically takes about 5 hours.
5. Once fully charged, disconnect the charger from the AC outlet first, then from the battery.



Figure 6: The VEVOR 36V 105Ah LiFePO4 Golf Cart Battery connected to its charger via the aviation connector for fast charging.

6. Maintenance

LiFePO4 batteries require minimal maintenance compared to lead-acid batteries, but proper care ensures longevity and performance.

- **Regular Inspection:** Periodically check battery terminals and connections for cleanliness and tightness. Ensure there is no corrosion or damage.
- **Cleaning:** Keep the battery casing clean and free from dust and debris. Use a dry cloth for cleaning. Do not use solvents or harsh chemicals.
- **Storage:** If storing the battery for an extended period, ensure it is charged to approximately 50-70% capacity. Store in a cool, dry place, away from direct sunlight and extreme temperatures. Recharge every 90 days to prevent deep discharge.
- **Temperature:** Operate the battery within its specified temperature range. Avoid charging or discharging in extremely cold or hot conditions. The BMS provides temperature protection.

7. Troubleshooting

If you encounter issues with your VEVOR LiFePO4 Golf Cart Battery, refer to the following common troubleshooting steps:

- **Battery Not Powering On:**
  - Ensure the power button on the battery is pressed and illuminated.
  - Check all connections to the golf cart and ensure they are secure.
  - Verify the battery has sufficient charge using the LCD display or mobile app. If low, connect the charger.
- **Golf Cart Not Moving/Low Power:**

- Check the battery's state of charge. A low charge will result in reduced performance.
- Inspect all electrical connections for looseness or corrosion.
- Ensure the battery's power button is on.
- If the battery is in protection mode (indicated by the BMS), it may need to be reset by disconnecting and reconnecting the main power cables, or by charging.

- **Charger Not Working/Battery Not Charging:**
  - Verify the charger is properly plugged into both the battery and the AC outlet.
  - Check the charger's indicator lights for error codes or charging status.
  - Ensure the battery's power button is on.
  - Confirm the AC outlet is functional.

- **Bluetooth Connectivity Issues:**
  - Ensure Bluetooth is enabled on your mobile device.
  - Make sure you are within range of the battery.
  - Restart the mobile app and try reconnecting.
  - Ensure the battery is powered on.

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

8. Specifications

Feature	Specification
Brand Name	VEVOR
Model Name	36V 105Ah Golf Cart Lithium Battery
Battery Pack Voltage	38.4 VDC
Capacity	105Ah
BMS	200A
Continuous Discharge Current	200A (30min)
Maximum Discharge Current	300A (30S)
Peak Discharge Current	600A (3S)
Discharge Rate	2C
Cycle Life	4000+ cycles
Charger Included	43.8VDC 20A
Charging Time	Approx. 5 hours
Interaction Method	Bluetooth + 2.3 in LCD Screen
Main Material	ABS casing
Waterproof Rating	IP65

Feature	Specification
Product Dimensions (L x W x H)	20.5 x 10.6 x 9.4 inches (520 x 270 x 240 mm)
Net Weight	69.89 lbs (31.7 kg)

9. Warranty & Support

VEVOR products are built to last and come with a commitment to quality. For specific warranty details regarding your VEVOR 36V 105Ah LiFePO4 Golf Cart Battery, please refer to the warranty card included with your product or visit the official VEVOR website.

If you require technical assistance, have questions about installation, operation, or maintenance, or need to report a product issue, please contact VEVOR customer support. Our team is available to provide expert guidance and solutions.

Contact Information:

Please refer to the contact details provided on your product packaging or the VEVOR official website for the most up-to-date support channels.

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.

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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