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› VATRER POWER /

› VATRER POWER 38.4V 105Ah LiFePO4 Golf Cart Battery Instruction Manual

VATRER POWER Golf Cart 36V (38.4V) 105Ah

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Brand: VATRER POWER | Model: Golf Cart 36V (38.4V) 105Ah

1. PRODUCT OVERVIEW

The VATRER POWER 38.4V 105Ah LiFePO4 Golf Cart Battery is a high-performance, long-lasting power solution designed specifically for golf carts. It features a compact 4.03kWh energy capacity, a robust 200A Battery Management System (BMS), and a 2.8-inch touch screen for real-time monitoring. This battery offers exceptional longevity with 4000+ cycles and is significantly lighter than traditional lead-acid batteries, ensuring enhanced acceleration and range for your golf cart.

1.1. Key Features

- **High Performance:** 4.03kWh energy, 7680W power, 200A continuous discharge (400A peak for 35s).
- **Advanced BMS:** Built-in 200A BMS provides comprehensive protection against over-charge/discharge, over-current, high/low temperatures, and short-circuiting.
- **Real-time Monitoring:** Equipped with a 2.8-inch touch screen and mobile APP for real-time battery data monitoring.
- **Exceptional Longevity:** Offers 4000+ deep cycles, significantly outperforming lead-acid batteries.
- **Lightweight Design:** 50% lighter than lead-acid batteries of the same capacity, simplifying installation and handling.
- **Fast Charging:** Includes a 43.8V 25A LiFePO4 charger for rapid charging.

1.2. What's in the Box

- Battery
- Charger & cable
- Display & cable
- Screws
- User manual



Figure 1: The VATRER POWER 38.4V 105Ah LiFePO4 Golf Cart Battery system, including the battery unit, charger, and touch monitor.

WHAT'S IN THE PACKAGE?



Figure 2: All components included in the product package, such as the battery, charger, display, cables, and mounting screws.

2. SETUP AND INSTALLATION

2.1. Unpacking

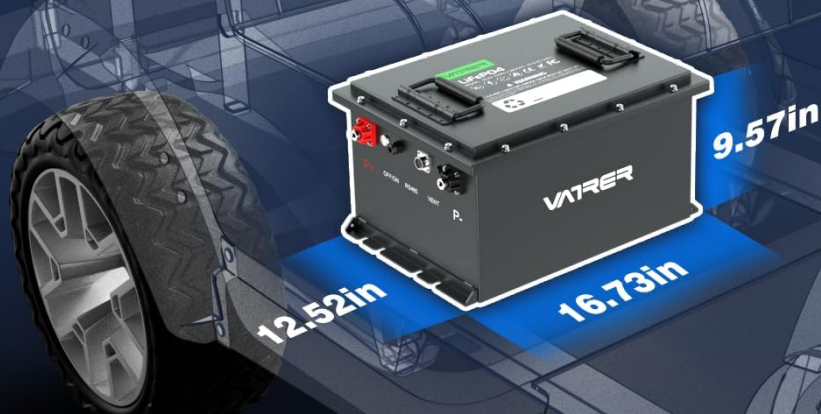
Carefully remove all components from the packaging. Inspect the battery, charger, display, and cables for any signs of damage. Report any damage to the supplier immediately.

2.2. Battery Placement

The battery is designed to be a direct replacement for lead-acid batteries in 36V golf carts. Its compact dimensions (12.52"D x 16.73"W x 9.57"H) and lighter weight (83.3 pounds) facilitate easier installation. Ensure the battery is placed in a secure, well-ventilated area within the golf cart, away from direct heat sources or flammable materials. Use the provided screws and bracket to secure the battery and LCD display in place.

DESIGNED SPECIFICALLY FOR GOLF CARTS

Lighter, Smaller & More Powerful Replacement for Your Lead Acid



Lightweight
83.79 lbs

Space Saving
L16.73*W12.52*H9.57 in

Figure 3: Illustrates the compact size and lightweight nature of the battery, designed for optimal fit in golf carts.

2.3. Electrical Connections

Connect the battery to your golf cart's electrical system. The battery is compatible with major golf cart controllers on the market. Ensure all connections are tight and secure to prevent arcing or power loss. The battery features M8 terminals for robust connections. Always connect positive to positive and negative to negative. Refer to your golf cart's specific wiring diagram for detailed connection instructions.

INCLUDED 43.8V 25A
DEDIATED CHARGER

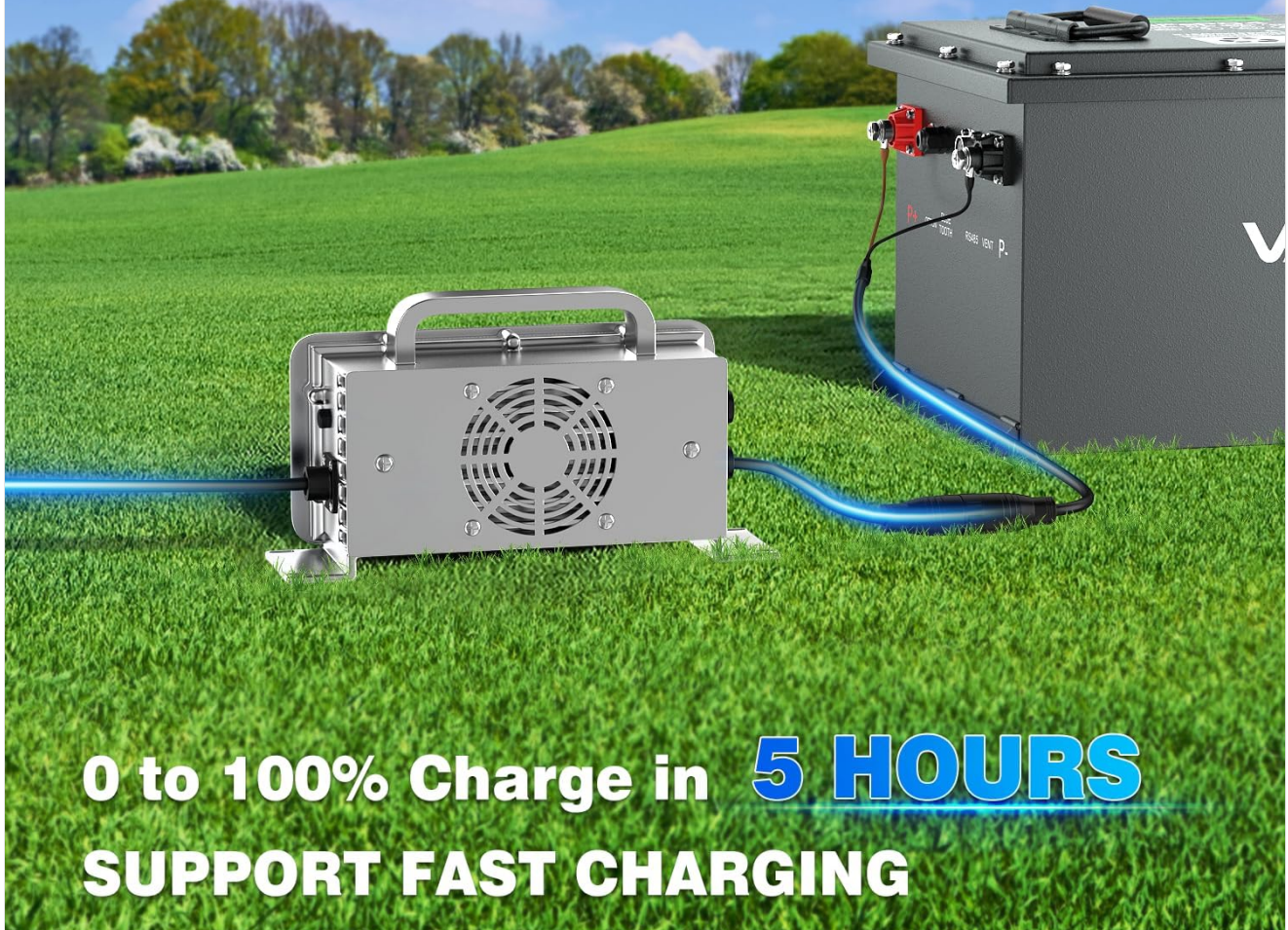


Figure 4: The battery is designed for compatibility with a wide range of golf cart models and controllers.

3. OPERATING INSTRUCTIONS

3.1. Initial Charge and Regular Charging

Before first use, fully charge the battery using the included 43.8V 25A LiFePO4 charger. Connect the charger to the battery and a standard AC outlet. The charger supports fast charging, typically achieving a 0 to 100% charge in approximately 5 hours. The LCD display will indicate charging status and battery percentage.

BLUETOOTH APP MONITORING LCD TOUCH SCREEN

Monitoring Your Battery in Real-time



Figure 5: The included charger ensures efficient and safe charging of the LiFePO4 battery.

3.2. Monitoring Battery Status

The battery comes with a 2.8-inch touch screen display that allows you to view real-time battery information such as voltage, current, state of charge (SOC), and temperature. Additionally, you can connect to the battery via a mobile application (APP) to monitor and control various data remotely. This APP function provides comprehensive insights into your battery's performance.

BUILT-IN SMART BMS

4000+ Cycle Life & Maintenance-Free



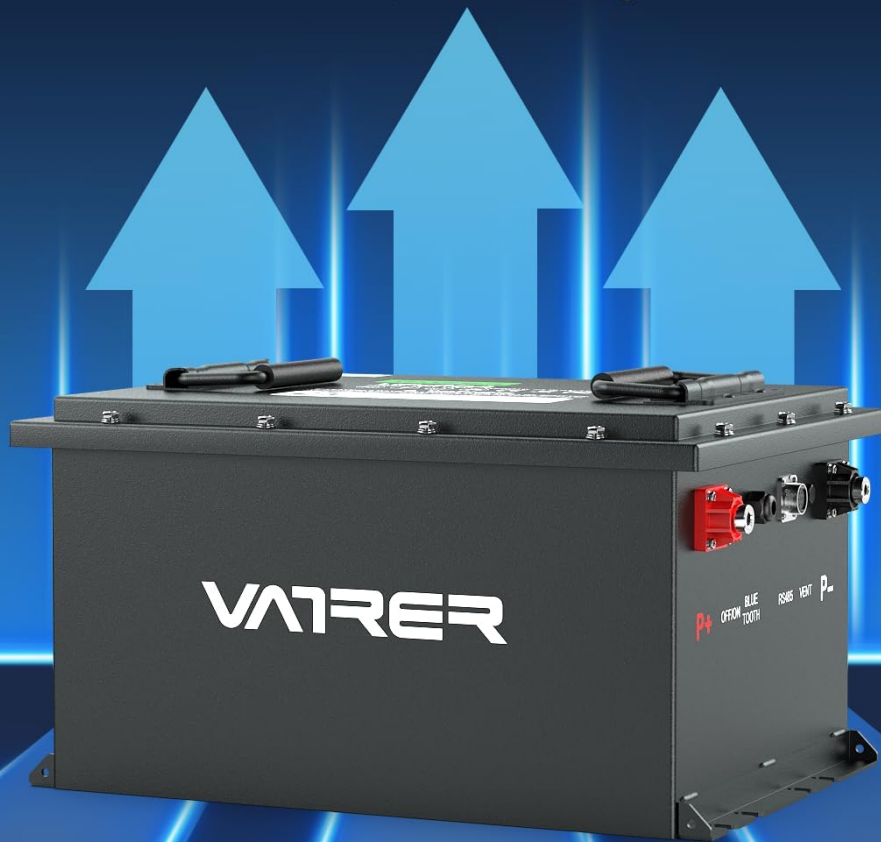
Figure 6: The LCD touch screen and mobile app provide detailed real-time monitoring of battery parameters.

3.3. Power Output and Range

The battery delivers a maximum load power of 7.68kW and a usable energy of 4.032kWh. It supports a continuous discharge current of up to 200A, with a peak discharge of 400A for 35 seconds and 600A for 3 seconds. This robust power output ensures excellent acceleration and performance for your golf cart. On a single charge, the battery can provide a continuous golfing range of 30-50 miles, depending on terrain and usage.

105AH MASSIVE CAPACITY

Max. Load Power: **7.68kW** / Usable Energy: **4.032kWh**
Unleashes Impressive Surge Power



200A

Max Continuous
Discharge

400A

35S Peak Discharge

600A

3S Peak Discharge

Figure 7: Details the impressive discharge capabilities and energy capacity of the battery.

4. MAINTENANCE

One of the significant advantages of LiFePO₄ batteries is their minimal maintenance requirements. This battery is designed to be maintenance-free, eliminating the need for daily checks or fluid top-ups associated with lead-acid batteries.

4.1. Temperature Protection

The built-in BMS provides intelligent temperature protection. Charging will be cut off if the temperature drops below 23°F (-5°C) and will recover when the temperature rises above 32°F (0°C). Discharging will be cut off if the temperature drops below -4°F (-20°C). This ensures the battery operates within safe temperature ranges, prolonging its lifespan.

COMPATIBLE WITH MAJOR BRANDS OF GOLF VEHICLE CONTROLLERS



Figure 8: Illustrates the battery's low-temperature protection features for safe operation in varying climates.

4.2. Long-Term 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. Periodically check the battery's charge level and recharge if necessary to prevent deep discharge.

5. TROUBLESHOOTING

This section provides guidance for common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Battery not charging or charging slowly.	Charger not properly connected, charger malfunction, or battery temperature outside operating range.	Ensure charger is securely connected to both battery and power outlet. Check ambient temperature. If issues persist, contact support.
LCD display not working.	Loose cable connection, display malfunction.	Check the display cable connection to the battery. Ensure it is firmly seated. If the display remains unresponsive, contact customer support for a replacement.
Reduced range or power output.	Battery not fully charged, excessive load, or extreme operating conditions.	Ensure battery is fully charged before use. Reduce excessive loads if possible. Operate within recommended temperature ranges.
Battery making unusual noises.	Internal component issue or BMS activity.	Some clicking sounds during charging or balancing are normal. If sounds are loud, continuous, or accompanied by other issues, disconnect and contact support immediately.

6. SPECIFICATIONS

Attribute	Detail
Brand	VATRER POWER
Model Number	Golf Cart 36V (38.4V) 105Ah
Product Dimensions	12.52"D x 16.73"W x 9.57"H
Item Weight	83.3 pounds
Number Of Cells	1 (Battery pack)
Resistance	20 Milliohms
Terminal Type	M8
Cycle Life	4000+ cycles
Continuous Discharge Current	200A
Peak Discharge Current	400A (35s), 600A (3s)
Usable Energy	4.032kWh
Max Load Power	7.68kW

7. WARRANTY AND SUPPORT

VATRER POWER is committed to providing high-quality products and excellent customer service.

7.1. Protection Plans

Extended protection plans are available for purchase to provide additional coverage beyond the standard manufacturer's warranty. These plans offer peace of mind for your investment:

- **2-Year Protection Plan:** Available for \$99.99.
- **3-Year Protection Plan:** Available for \$129.99.
- **Complete Protect:** A monthly plan at \$16.99/month, covering all eligible past and future purchases.

7.2. Customer Support

VATRER POWER offers dedicated customer support with over 10 years of expertise in golf cart and RV solutions. They provide 24-hour customer service and maintain a local warehouse in the US for efficient service and support. A 30-day price difference guarantee is also offered.

For technical assistance, warranty claims, or any inquiries, please visit the official VATRER POWER store or contact their customer service team directly.

VATRER POWER Store: [Visit Store](#)