TEMGO 48V(51.2V) 100AH Lithium Battery

TEMGO 48V (51.2V) 100Ah LiFePO4 Golf Cart Battery Instruction Manual

Model: 48V(51.2V) 100AH Lithium Battery

1. Introduction

This manual provides essential information for the safe and efficient use of your TEMGO 48V (51.2V) 100Ah LiFePO4 Golf Cart Battery. Please read all instructions carefully before installation and operation to ensure optimal performance and longevity of your battery system.

2. Safety Information

Your safety is paramount. Observe all warnings and precautions outlined in this manual.

- **WARNING: HEAVY LIFTING CAN CAUSE SEVERE PERSONAL INJURY.** Always select the correct lifting tool (CGI 102519101) only with the aid of an assistant.
- **WARNING:** Authorized personnel are allowed to operate only. Unauthorized operation may cause serious injury or damage to the product. Please follow the operating instructions.
- **WARNING:** High voltage, overcurrent, short circuit, high/low temperature, overcharge, overdischarge, etc. are strictly prohibited.
- **WARNING:** Keep out of the reach of children.
- The battery case is made of high-strength cold-rolled metal plate (SPCC), featuring fireproof, shockproof, and IP67 waterproof properties. However, avoid intentional exposure to extreme conditions.
- The built-in 200A Battery Management System (BMS) provides multiple protections including over-charge/discharge, over-current, high/low temperatures, and short-circuiting.
- **IF LEAVING 5 DAYS OR LONGER, PACK MUST BE SHUT OFF.**

3. What's Included

The TEMGO 48V (51.2V) 100Ah LiFePO4 Battery package includes the following items:

- 48V(51.2V) 100Ah Lithium Battery

- 56.8V 18A Charger
- Screen (Display)
- APP Monitor (Software)



Figure 1: Package Contents. This image displays the 51.2V 100Ah Battery, Product Manual, Battery SOC Indicator External Control Switch, Brackets and Screws, and the 56.8V 18A Dedicated Charger.

4. Product Features

The TEMGO 48V (51.2V) 100Ah LiFePO4 Battery offers advanced features for reliable performance:

- **Built-in 200A BMS & Multiple Protection:** Integrated Battery Management System (BMS) safeguards against over-charge/discharge, over-current, high/low temperatures, and short-circuiting. Offers good thermal and chemical stability, requiring no daily maintenance.
- **Safer & Robust Construction:** High-strength cold-rolled metal plate (SPCC) casing provides fireproof, shockproof, and IP67 waterproof protection. Compatible with major golf cart controllers, electric vehicles, trolling motors, and marine engines.

- **Ultimate Performance:** Manufactured with Automotive Grade A LiFePO4 Cells, providing 5.12kWh energy and 10.24kW peak power. Features low self-discharge rate, low capacity loss, and stable performance, with continuous discharge current up to 200A (Peak 300A for 30 seconds).
- **Large Capacity & Compact Size:** Reduced weight (99.2 lbs) by 50% compared to lead-acid batteries, enhancing golf cart performance and increasing range up to 50 miles on a single charge. Dimensions: 13.39"D x 18.11"W x 9.84"H.
- **User-Friendly Functions:** Main battery switch with a green indicator light shows battery status. Includes an external switch and cable for convenient installation near the golf cart dashboard.
- **56.8V 18A Charger & Display Screen:** Comes with a dedicated 56.8V 18A LiFePO4 charger for fast charging (0-100% in 5 hours). The integrated screen displays real-time battery information.
- **Bluetooth Function & APP Monitoring:** Exclusive monitor and dedicated APP allow real-time tracking of battery information and charging status from your smartphone.



Figure 2: TEMGO 48V (51.2V) 100Ah LiFePO4 Golf Cart Battery. The main product image showing the battery unit, charger, and a smartphone displaying the monitoring app.



Figure 3: Product Dimensions. The image illustrates the battery's dimensions (13.39"D x 18.11"W x 9.84"H) and weight (99.2 lbs), emphasizing its compact size and lighter weight compared to traditional lead-acid batteries.



Figure 4: Internal Battery Structure and Performance. This image shows the internal cell arrangement and highlights key performance metrics like 5000+ deep cycles, 5.12kWh usable energy, 200A built-in BMS, 2C rate Grade A cells, and 10.24kW maximum continuous load power.

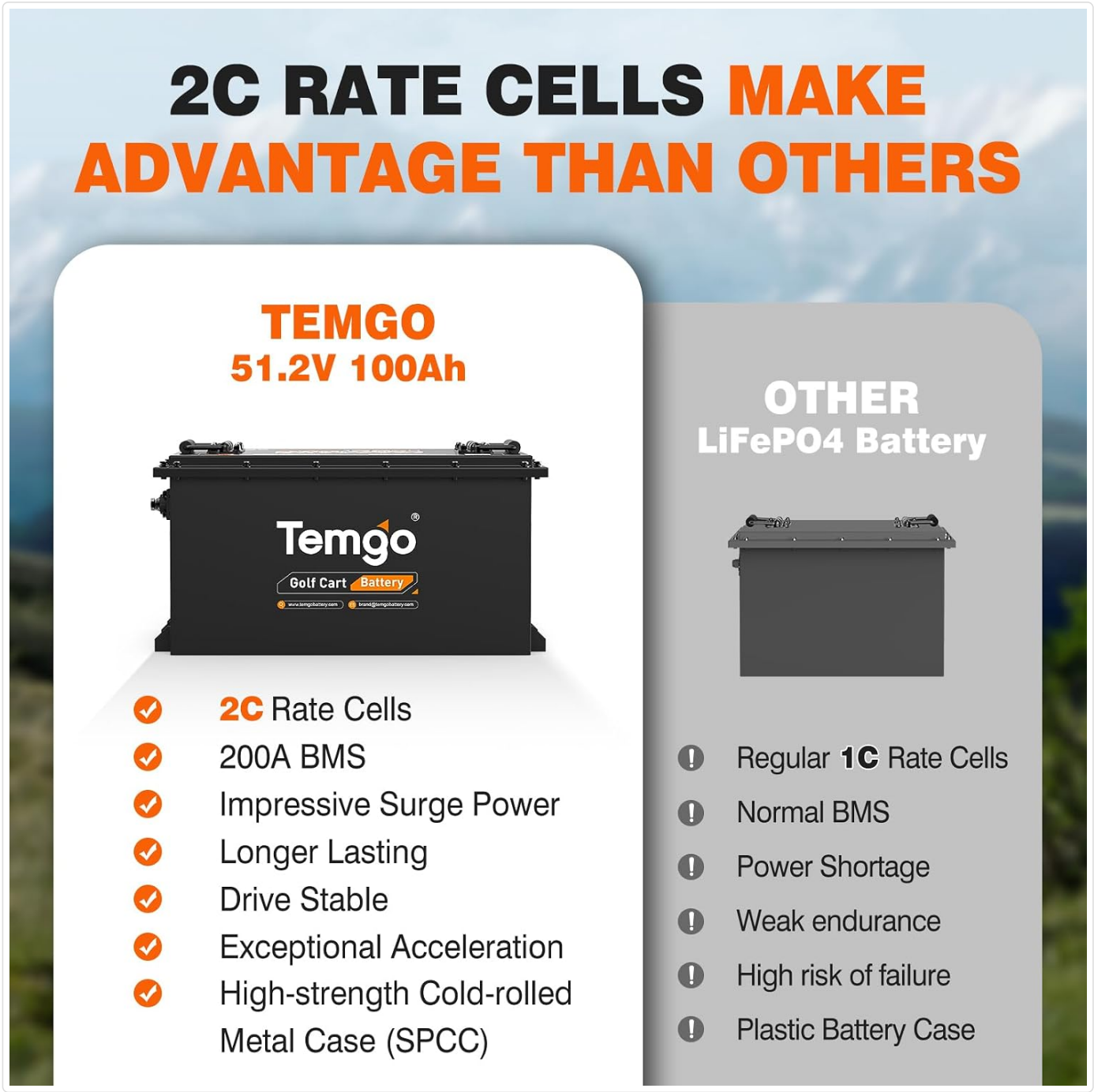


Figure 5: Feature Comparison. This graphic compares the TEMGO 51.2V 100Ah battery's advantages, such as 2C rate cells and a 200A BMS, against other LiFePO4 batteries.



Figure 6: Dedicated Charger. The image displays the included 56.8V 18A dedicated LiFePO4 charger, capable of a full recharge in approximately 5 hours.



Figure 7: Real-time Display. This image shows the battery connected to its real-time color display, illustrating two possible assembly methods for the display unit.



Figure 8: Application Scenarios. The image depicts various uses for the TEMGO battery, such as in golf carts, ATVs, mobility scooters, neighborhood electric shuttle buses, and riding mowers.

5. Setup & Installation

Follow these steps for proper installation of your TEMGO LiFePO4 battery system:

5.1. Battery Installation

1. Ensure the golf cart is powered off and all existing batteries are safely removed.
2. Place the TEMGO LiFePO4 battery securely in the battery compartment. If necessary, use the provided ratchet straps to firmly secure the battery. Drill small holes in appropriate locations (e.g., aluminum cross member) to anchor the straps, ensuring the battery cannot move during operation.

Video 1: TEMGO Golf Cart Battery Installation. This video demonstrates the process of installing the TEMGO golf cart battery, including securing it with a ratchet strap and connecting the DC-DC converter and charger wiring.

5.2. Wiring Connections

Connect the battery to your golf cart's electrical system and accessories:

1. Connect the main positive and negative cables from the golf cart to the corresponding terminals on the TEMGO battery.
2. Connect the red wire from the DC-DC converter to the positive terminal of the battery.
3. Connect the black wire from the DC-DC converter to the negative terminal of the battery.
4. Ensure all connections are tight and secure.

5.3. DC-DC Converter Installation

Mount the DC-DC converter in a suitable location, typically near the battery:

1. Secure the DC-DC converter using appropriate fasteners.
2. Connect the yellow wire from the DC-DC converter to the key switch for activation.

5.4. Display/Monitor Installation

Install the real-time display for convenient battery monitoring:

1. Mount the display in a visible location on your dashboard using the provided brackets and screws.
2. Connect the display cable to the designated port on the battery.
3. Ensure the display is securely mounted and the cable is routed safely.

Video 2: Battery Monitor Installation Procedure. This video demonstrates the wiring and setup of a battery monitor, including connecting the shunt and setting parameters, which is applicable to the TEMGO display unit.

5.5. App Setup (Bluetooth Monitoring)

For advanced monitoring, download and connect the TEMGO app:

1. Search for "TEMGO" in your smartphone's app store (App Store or Google Play).
2. Download and install the application.
3. Follow the in-app instructions to connect to your TEMGO battery via Bluetooth.

6. Operating Instructions

6.1. Turning the Battery On/Off

- Press the main battery switch on the battery unit to turn it on. A green indicator light will illuminate.
- To turn off, press the main battery switch again.
- Alternatively, use the external switch installed near the dashboard for convenience.

6.2. Monitoring Battery Status

- The integrated display screen provides real-time information such as voltage, current, temperature, and state of charge.
- Use the TEMGO smartphone app to monitor detailed battery information remotely via Bluetooth.

6.3. Charging the Battery

- Ensure the battery is turned ON before connecting the charger.
- Connect the provided 56.8V 18A LiFePO4 charger to the battery's charging port.
- Plug the charger into a standard AC power outlet.

- The charger supports fast charging, typically reaching 0-100% in 5 hours.

7. Maintenance

The TEMGO LiFePO4 battery is designed to be maintenance-free, eliminating the need for daily maintenance tasks such as watering.

- Regularly inspect battery terminals and connections for cleanliness and tightness.
- If the battery will not be used for 5 days or longer, ensure the pack is shut off to preserve charge.
- Store the battery in an environment with temperatures above 32°F (0°C) for optimal longevity. The battery features low-temp cut-off protection, stopping charging below 32°F and discharging below 4°F.

8. Troubleshooting

If you encounter issues with your TEMGO battery, consider the following common problems and solutions:

- **Battery Not Charging:** Ensure the main battery switch is turned ON before connecting the charger. Verify the charger is properly connected to both the battery and a working power outlet. Check for any error messages on the display screen or app.
- **Charger Not Activating (No Fan/Power):** If the charger does not power up or its fan does not cycle, try disconnecting and reconnecting it multiple times. If the issue persists, contact customer support.
- **Inaccurate Display/App Readings:** If the display or app shows incorrect information (e.g., charging when disconnected, incorrect amperage), ensure all monitor wiring is correctly installed and parameters are set according to the instructions. Incorrect shunt settings can lead to display errors.
- **Battery Not Providing Power:** Verify the main battery switch is ON. Check all wiring connections for tightness and proper polarity. The BMS may have activated a protection mode (e.g., over-discharge, over-current); check the display/app for status.

9. Specifications

Feature	Specification
Brand	TEMGO
Model	48V(51.2V) 100AH Lithium Battery
Size	48V (51.2V) 100Ah
Product Dimensions	13.39"D x 18.11"W x 9.84"H
Item Weight	99.2 pounds
Number Of Cells	1 (internal cell configuration)
Resistance	20 Milliohms
Terminal Type	M8
BMS	Built-in 200A
Charger	56.8V 18A LiFePO4 Charger
Connectivity	Bluetooth, APP Monitor

Feature	Specification
Waterproof Rating	IP67

10. Warranty & Support

For warranty information, technical support, or service inquiries, please refer to the contact details provided with your product packaging or visit the official TEMGO website. Keep your purchase receipt as proof of purchase for warranty claims.

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.

Name

Anonymous

Email

you@example.com

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