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TEMGO 38.4V100Ah Lithium Battery

TEMGO 36V (38.4V) 100Ah LiFePO4 Golf Cart Battery Instruction Manual

Model: 38.4V100Ah Lithium Battery

1. Introduction and Safety Information

This manual provides essential information for the safe and efficient operation of your TEMGO 36V (38.4V) 100Ah LiFePO4 Golf Cart Battery. Please read all instructions carefully before installation and use. This battery is designed for use in 36V golf carts, trolling motors, RVs, and home backup power supplies.

The TEMGO LiFePO4 battery features Automotive Grade A cells, offering 3.84kWh of energy and 7680W of power. It includes a built-in 200A Battery Management System (BMS) for comprehensive protection and supports a continuous discharge current up to 200A (Peak 315A for 30 seconds, 600A for 3 seconds). The battery is designed for a long service life with over 5000 deep cycles.

Safety Precautions:

- Always wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Ensure the battery is installed in a well-ventilated area.
- Do not short-circuit the battery terminals.
- Do not expose the battery to fire or extreme temperatures.
- Avoid dropping or subjecting the battery to severe impact.
- Only use the dedicated 42.6V 20A LiFePO4 charger provided with the battery.
- Keep out of reach of children.

2. What's in the Box

Upon receiving your TEMGO LiFePO4 Golf Cart Battery, please verify that all components are present and undamaged:

- 1x TEMGO 38.4V 100Ah LiFePO4 Battery
- 1x 42.6V 20A Dedicated LiFePO4 Charger
- 1x Battery SOC Indicator (Display Screen)
- 1x External Control Switch and Cable

- 1x Bracket and Screws for display/switch installation
- 1x Product Manual



Image: The package contents include the 38.4V 100Ah battery, product manual, battery SOC indicator with external control switch, bracket and screws, and the 42.6V 20A dedicated charger.

3. Setup and Installation

The TEMGO LiFePO4 battery is designed for easy installation due to its compact size and reduced weight (approximately 81.6 lbs), which is about 50% lighter than traditional lead-acid batteries. This reduces strain on the motor and enhances overall performance.

Installation Steps:

1. **Unboxing:** Carefully remove the battery and accessories from the packaging. The battery is often shipped in a wooden crate for protection.
2. **Placement:** Position the battery securely in the designated battery compartment of your golf cart or application.

Ensure adequate ventilation.

3. **Connections:** Connect the battery terminals (B+ and B-) using appropriate M8 terminals. Ensure all connections are tight and secure (14N.m max torque).
4. **External Switch/Display:** Install the external control switch and battery SOC indicator in a convenient location, such as the dashboard, using the provided bracket and screws. Connect the cable from the external switch to the designated port on the battery.
5. **Initial Charge:** Before first use, fully charge the battery using the provided 42.6V 20A dedicated LiFePO4 charger. A full charge from 0% to 100% typically takes approximately 5 hours.



Image: The TEMGO 36V (38.4V) 100Ah LiFePO4 battery measures 12.59"D x 15.19"W x 9.84"H and weighs 81.6 lbs, making it a suitable replacement for lead-acid batteries in many golf carts.

Video: This video demonstrates the unboxing process and highlights the internal construction of the TEMGO LiFePO4 battery, including its Grade A cells and robust busbars.

Video: This video shows the installation of a TEMGO LiFePO4 battery in a golf cart, demonstrating the connection points and overall fit.

4. Operating Instructions

The TEMGO LiFePO4 battery offers advanced features for convenient operation and monitoring.

Power On/Off:

- The main battery switch has a green indicator light. When the switch is turned on, the indicator light is continuously green.
- An external switch and cable are provided, allowing you to install a remote power switch near your golf cart's dashboard for easy access.

Real-time Monitoring:

- The included Battery SOC Indicator (display screen) provides real-time battery information such as voltage, state of charge (SOC), and current.
- The battery features a built-in Bluetooth function. Download the "TEMGO" app from your app store to monitor battery status, charging, and discharging information directly from your smartphone.



Image: The TEMGO battery is shown with its real-time color display, which can be assembled in two methods, providing immediate feedback on battery status.

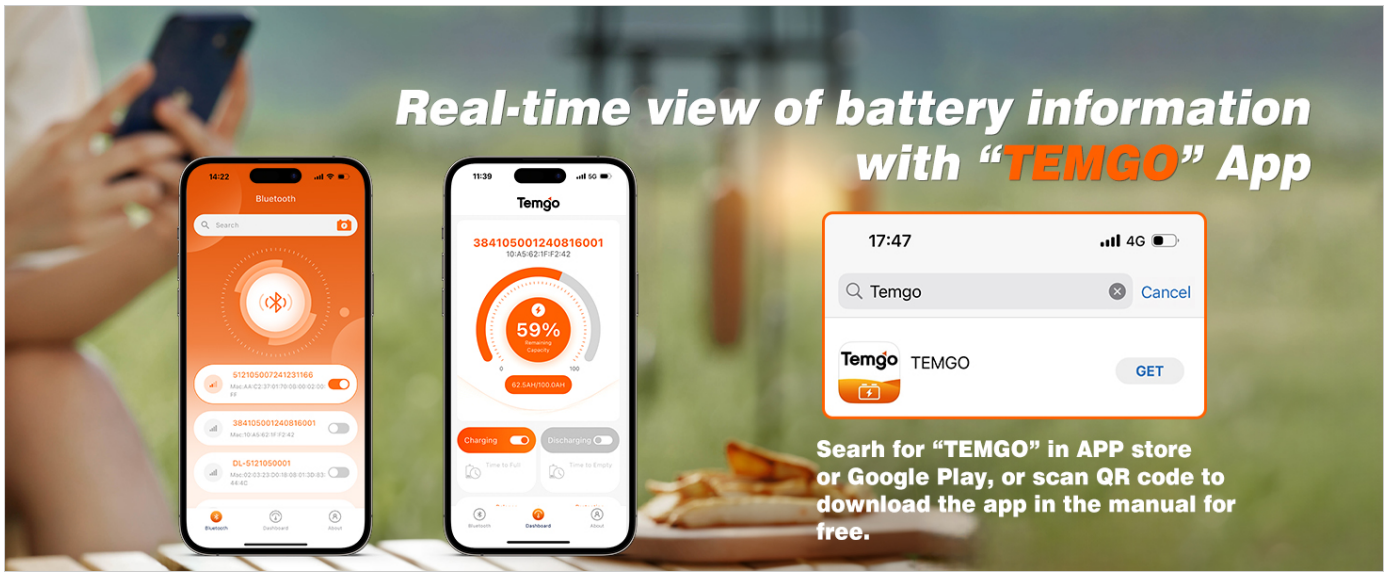


Image: A smartphone screen displays the TEMGO app interface, showing real-time battery information and instructions to download the app.

Applications:

This 36V 100Ah battery is suitable for various applications, including:

- Golf Carts (compatible with main brand controllers)
- Trolling Motors (recommended for 101~112lbs / up to 120A thrust)
- RVs
- Home Backup Power Supplies
- ATVs and Electric Tricycles



Image: The TEMGO battery is depicted in various applications, including a mobility scooter, ATV, golf cart, neighborhood electric shuttle bus, and riding mower.

5. Maintenance

The TEMGO LiFePO4 battery is designed to be maintenance-free, eliminating the need for daily maintenance work and associated costs. However, proper charging practices are crucial for maximizing battery life.

Charging:

- Always use the provided 42.6V 20A dedicated LiFePO4 charger.
- Connect the charger to the battery's charging port and then plug it into a power outlet.
- The charger supports fast charging, allowing a full charge in approximately 5 hours.
- Monitor the charging status via the battery's display screen or the TEMGO app.



Image: The TEMGO LiFePO4 battery is shown connected to its dedicated 42.6V 20A charger, emphasizing the fast recharge capability of only 5 hours.

Storage:

- For optimal battery health, store the battery in a temperature range of 32°F (0°C) or above.
- The battery features low-temperature cut-off protection: it stops discharging below -4°F (-20°C) and stops charging below 32°F (0°C) to prevent damage.



Image: Illustration showing the low-temperature cut-off protection, indicating that the battery stops discharging below -4°F and stops charging below 32°F.

6. Troubleshooting

The built-in 200A Battery Management System (BMS) provides multiple layers of protection to ensure safe and reliable operation. If you encounter issues, refer to the following:

BMS Protection Features:

- **Over-charge Protection:** Prevents the battery from being charged beyond its safe voltage limit.
- **Over-discharge Protection:** Prevents the battery from being discharged below its safe voltage limit, extending its lifespan.
- **Over-current Protection:** Safeguards against excessive current draw during operation.
- **High/Low Temperature Protection:** Automatically stops charging or discharging if temperatures exceed safe operating ranges.
- **Short-circuiting Protection:** Immediately cuts off power in case of a short circuit.

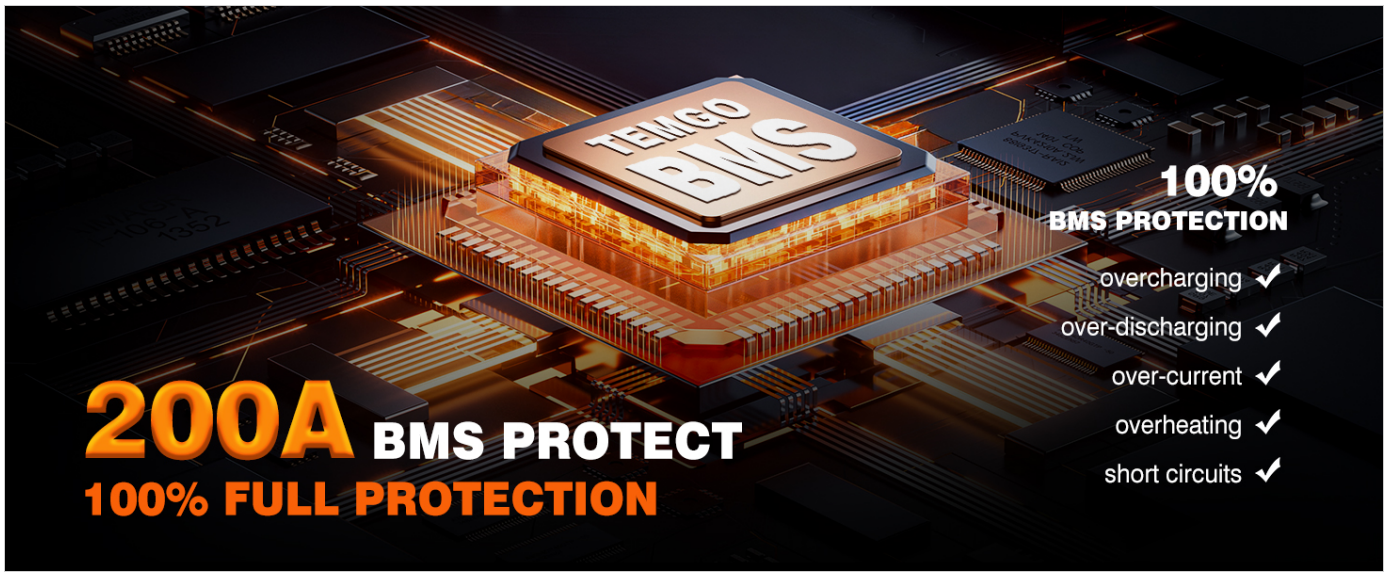


Image: An illustration detailing the 200A BMS protection, highlighting safeguards against overcharging, over-discharging, over-current, overheating, and short circuits.

If the battery is not functioning as expected, check the connections, ensure the external switch is on, and consult the real-time data on the display or app for any error indicators. If problems persist, contact customer support.

7. Specifications

Feature	Specification
Brand	TEMGO
Model	38.4V100Ah Lithium Battery
Size	36V (38.4V) 100Ah
Battery Capacity	105 Amp Hours
Voltage	38.4 Volts
Energy	5376WH (5.376kWh)
Continuous Discharge Current	Up to 200A
Peak Discharge Current	315A (30S), 600A (3S)
BMS	Built-in 200A BMS
Charger	42.6V 20A LiFePO4 Charger
Product Dimensions	12.59"D x 15.19"W x 9.84"H
Item Weight	81.6 Pounds
Terminal	M8
Resistance	20 Milliohms
Battery Cell Composition	Lithium Ion (LiFePO4)

8. Warranty and Support

TEMGO is committed to providing satisfactory service and support for its products.

- **Service Life:** The TEMGO LiFePO4 battery is designed for a five-year service life.
- **Technical Support:** 5-Year Technical Support is provided.
- **Customer Service:** 24-Hour Customer Service is available for assistance.

For any inquiries or support needs, please refer to the contact information provided in your product packaging or visit the official TEMGO website.

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