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› WEIZE 36V 45AH GC2 Bluetooth LiFePO4 Battery User Manual

WEIZE BAF-1701

WEIZE 36V 45AH GC2 Bluetooth LiFePO4 Battery User Manual

Model: BAF-1701

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your WEIZE 36V 45AH GC2 Bluetooth LiFePO4 Battery. This battery is designed for deep cycle applications in golf carts, RVs, and solar systems, offering advanced features like Bluetooth monitoring and a built-in Battery Management System (BMS).

Please read this manual thoroughly before installation and operation to ensure proper usage and to maximize the battery's lifespan and performance.

2. PRODUCT FEATURES

- **Optimized for 36V Golf Carts:** Specifically designed to enhance maneuverability and provide powerful energy output for superior climbing ability.
- **Bluetooth 5.0 Connectivity:** Allows for smart monitoring of battery status via a mobile application.
- **Advanced BMS Protection:** Integrated 100A Battery Management System protects against overcharging, over-discharging, overcurrent, high/low temperatures, and short circuits.
- **Low-Temperature Protection:** Automatically suspends charging below 0°C (32°F) and discharging below -20°C (-4°F) to prevent damage in cold conditions.
- **Long Cycle Life:** Offers 2000 cycles at 100% Depth of Discharge (DoD) or 8000 cycles at 50% DoD, significantly outlasting lead-acid batteries.
- **High Energy Density:** Provides 1.728kWh of energy in a compact GC2 size, delivering 2.5 times the energy of a 6V GC2 lead-acid battery.
- **High Power Output:** Supports a maximum load of 3456W, with continuous discharge up to 90A and peak discharge of 300A for 1 second.
- **Lightweight Design:** Weighs approximately 32.8 lbs, which is significantly lighter than comparable lead-acid batteries.
- **Safe and Environmentally Friendly:** Constructed from 100% safe, non-toxic, non-hazardous LiFePO4 materials, resistant to thermal runaway.
- **Versatile Applications:** Ideal for golf carts, RVs, solar systems, and off-grid power solutions.

3. SAFETY INFORMATION

Adhering to safety guidelines is crucial for preventing injury and damage. Please observe the following precautions:

- **Read the Manual:** Always read the entire user manual before installation or operation.
- **Dedicated Charger:** Use only a dedicated lithium battery charger compatible with LiFePO4 batteries. Using an incompatible charger can damage the battery and pose a fire risk.
- **Avoid Series Connection:** **Do not connect this battery in series.** Connecting in series can lead to overvoltage and damage the battery or connected equipment.
- **Parallel Connection:** This battery can be connected in parallel to increase capacity. Ensure all batteries are of the same voltage and capacity, and are fully charged before connecting in parallel.
- **Temperature Limits:** Do not attempt to charge the battery below 0°C (32°F) or discharge below -20°C (-4°F). The built-in BMS will automatically prevent these actions.
- **Physical Damage:** Avoid puncturing, dropping, or subjecting the battery to severe impacts. Do not disassemble the battery.
- **Ventilation:** Ensure adequate ventilation around the battery during charging and discharging, although LiFePO4 batteries do not produce gases like lead-acid batteries.
- **Mounting:** The battery can be safely mounted in any position due to its sealed, acid-free design.
- **Short Circuits:** Prevent short circuits by ensuring terminals are properly insulated and connections are secure.

4. SETUP AND INSTALLATION

Before installation, ensure you have the correct tools and safety equipment. Always disconnect existing power sources before beginning.

4.1 Unpacking and Inspection

Upon receiving your WEIZE LiFePO4 battery, carefully inspect it for any signs of damage during transit. If any damage is observed, contact customer support immediately.



Figure 1: WEIZE 36V 45AH GC2 Bluetooth LiFePO4 Battery. This image shows the overall appearance of the battery with its handle and terminal posts.

4.2 Physical Dimensions and Weight

The battery features a GC2 form factor, making it a direct replacement for many lead-acid golf cart batteries. Its dimensions are approximately 10.24 inches (L) x 7.09 inches (W) x 10.43 inches (H), and it weighs 32.8 lbs.

POWERFUL REPLACEMENT FOR YOUR LEAD ACID GC2 BATTERY

Terminal
F12/M8

Compact & Lightweight
32.76 lbs

Space-Saving Design
L10.24 x W7.09 x H10.43 inch



10.43 inch

10.24 inch

7.09 inch

Figure 2: Dimensions of the WEIZE 36V 45AH LiFePO₄ Battery. This image highlights the length, width, and height of the battery, along with its weight and terminal type (F12/M8).

4.3 Electrical Connections

Connect the battery to your system using appropriate cables and connectors. Ensure all connections are tight and secure to prevent resistance and overheating.

- **Single Battery Installation:** Connect the positive terminal of the battery to the positive input of your system and the negative terminal to the negative input.
- **Parallel Connection (for increased capacity):** If connecting multiple WEIZE 36V 45AH batteries in parallel, ensure all batteries are fully charged to the same voltage before connecting. Connect positive terminals together and negative terminals together. This increases the total amperage-hour (Ah) capacity while maintaining the 36V system voltage. **Do not connect in series.**

SPECIALLY DESIGNED FOR 36V GOLF CART



- ✓ GC2 Battery Dimension
- ✓ Grade A Cells
- ✓ Built in 100A BMS
- ✓ 300A/1S Peak Discharge
- ✓ 4000-15000 Cycles
- ✓ More Than 10 Years Life Time

Figure 3: The WEIZE 36V 45AH LiFePO4 battery installed in a golf cart. This image illustrates the battery's suitability for golf cart applications, highlighting its GC2 dimension, Grade A cells, built-in 100A BMS, 300A/1S peak discharge, and long cycle life.

5. OPERATING INSTRUCTIONS

5.1 Initial Charge

It is recommended to fully charge the battery before its first use. Use a compatible LiFePO4 charger.

5.2 Charging the Battery

The WEIZE 36V 45AH LiFePO4 battery can be recharged using several methods:

- **36V 20A Lithium Charger:** A dedicated 36V 20A lithium charger can fully charge the battery in approximately 2.2 hours.
- **Generator + 20A DC-DC Charger:** Using a generator with a 20A DC-DC charger also allows for a full charge in about 2.2 hours.

- **Solar Panel + MPPT (>600W):** With a solar panel system providing over 600W and an MPPT charge controller, the battery can be fully charged in approximately one sunny day.

3 WAYS OF RECHARGING THE BATTERY



-  **36V 20A Lithium Charger**
2.2 hours
-  **Generator+20A DC-DC Charger**
2.2 hours
-  **Solar Panel+MPPT(>600W)**
1 sunny day



Figure 4: Illustration of three charging methods for the WEIZE 36V 45AH LiFePO4 Battery: using a 36V 20A lithium charger, a generator with a 20A DC-DC charger, or a solar panel with an MPPT controller.

5.3 Bluetooth Monitoring

The integrated Bluetooth 5.0 allows for real-time monitoring of your battery's status via a smartphone application. Download the official WEIZE battery monitoring app from your device's app store. Once installed, open the app and connect to your battery. The app will display information such as State of Charge (SOC), voltage, current, temperature, and protection status.

BLUETOOTH CONTROL ANYTIME ANYWHERE



Monitor in Real Time

Seamless Control

Auto Connection

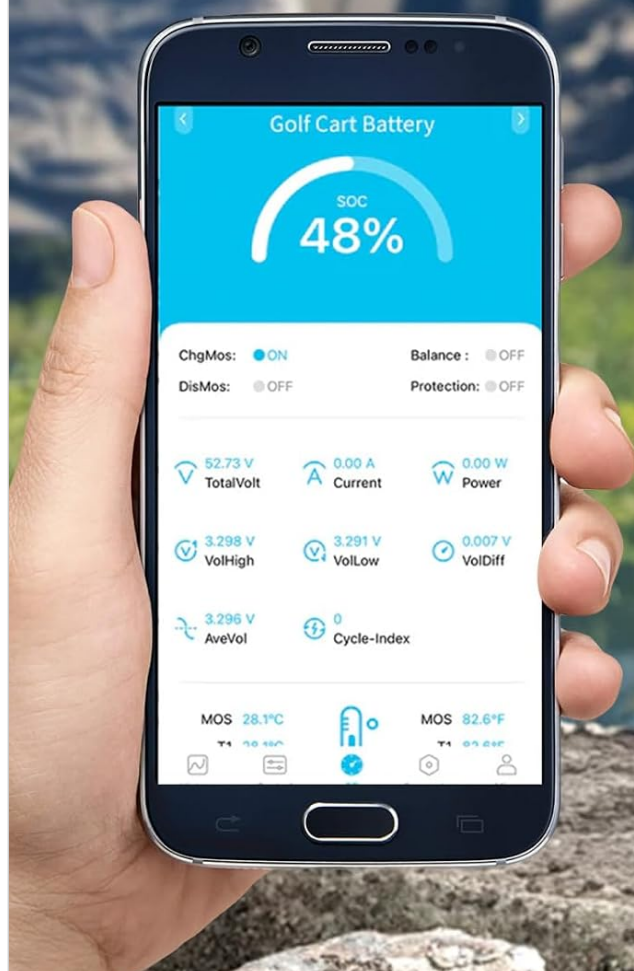


Figure 5: A smartphone displaying the WEIZE battery monitoring app, showing real-time data such as State of Charge (SOC), voltage, current, and temperature. The battery is visible in the background.

5.4 Typical Applications

This battery is suitable for various deep cycle applications:

- **Golf Carts:** Provides extended range (up to 17 miles on a single charge) and improved performance.
- **RVs:** Powers appliances and systems in recreational vehicles.
- **Solar Systems:** Stores energy for off-grid or grid-tied solar installations.
- **Marine Applications:** Suitable for yachts and boats.



RV



Solar System



Yacht&Boat



Golf Cart

Figure 6: Examples of applications for the WEIZE 36V 45AH LiFePO4 Battery, including RVs, solar systems, yachts/boats, and golf carts.

6. MAINTENANCE

The WEIZE LiFePO4 battery is designed to be maintenance-free, eliminating the need for daily upkeep common with lead-acid batteries. However, observing the following guidelines will help ensure optimal performance and longevity:

- **Regular Monitoring:** Utilize the Bluetooth app to periodically check the battery's health, State of Charge (SOC), and temperature.
- **Clean Terminals:** Ensure battery terminals are clean and free of corrosion. Tighten connections as needed.
- **Storage:** If storing the battery for an extended period, ensure it is charged to approximately 50% SOC and stored in a cool, dry place. Avoid extreme temperatures.
- **Avoid Deep Discharges:** While the battery can handle 100% Depth of Discharge, prolonging its life can be achieved by avoiding consistent full discharges when possible.

7. TROUBLESHOOTING

If you encounter issues with your WEIZE LiFePO4 battery, consider the following common troubleshooting steps:

- **Battery Not Charging:**
 - Verify the charger is a dedicated LiFePO4 charger and is properly connected.
 - Check if the ambient temperature is below 0°C (32°F). The BMS will prevent charging in cold conditions.
 - Inspect all cable connections for looseness or corrosion.
- **No Power Output:**
 - Check the battery's State of Charge (SOC) via the Bluetooth app. The battery may be fully discharged.
 - Ensure all connections are secure and there are no short circuits.
 - The BMS may have activated a protection mode (e.g., over-discharge, overcurrent). Disconnect the load, wait a few minutes, and try again.
- **Bluetooth Connection Issues:**
 - Ensure Bluetooth is enabled on your smartphone and the app has location permissions.
 - Make sure you are within range of the battery.
 - Restart the app or your phone.

If problems persist after attempting these steps, please contact WEIZE customer support for further assistance.

8. SPECIFICATIONS

Specification	Value
Brand	WEIZE
Model Name	GC2 36V Golf Cart Battery
Model Number	BAF-1701
Voltage	38.5 Volts (Nominal 36V)
Capacity	45 Ah
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Built-in BMS	100A
Continuous Discharge Current	Up to 90A
Peak Discharge Current	300A (for 1 second)
Max Load Power	3456W
Usable Energy	1.728 kWh
Cycle Life	2000 cycles @ 100% DoD, 8000 cycles @ 50% DoD
Low-Temperature Charge Cutoff	0°C (32°F)
Low-Temperature Discharge Cutoff	-20°C (-4°F)
Item Dimensions (L x W x H)	10.24 x 7.09 x 10.43 inches
Battery Weight	32.8 Pounds

Specification	Value
Warranty	10 Years

9. WARRANTY AND SUPPORT

The WEIZE 36V 45AH GC2 Bluetooth LiFePO4 Battery comes with a **10-year warranty**, reflecting our commitment to quality and durability.

For any questions, technical support, or warranty claims, please contact WEIZE customer service directly. Our support team is available to assist you with any inquiries regarding your battery.

Contact Information: Please refer to the contact details provided on the WEIZE official website or your purchase documentation.

10. PRODUCT OVERVIEW VIDEO

Your browser does not support the video tag.

Video 1: An overview of the WEIZE Deep Cycle Lithium Battery, showcasing its versatility and applications in RVs, solar systems, and other uses. This video provides a visual summary of the battery's features and benefits.

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