Elefast 36V105AH

Elefast 36V 105AH Lithium Golf Cart Battery Kit

Instruction Manual

1. Introduction

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

2. What's in the Box

Upon unpacking, please verify that all components listed below are present and undamaged:

- Elefast 36V 105AH LiFePO4 Battery Body
- 43.8V 25A Fast Charger
- 2.8-inch LCD Touch Monitor



Image 2.1: The Elefast 36V 105AH Lithium Golf Cart Battery Kit, including the battery, charger, and LCD monitor.

3. Specifications

Feature	Specification
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	36V
Nominal Capacity	105AH
Built-in BMS	200A Intelligent BMS
Peak Discharge Current	600A (3 seconds instantaneous)
Surge Discharge Current	400A (35 seconds)

Feature	Specification
Charger Included	43.8V 25A Fast Charger
Charging Time (0-100%)	Approximately 4 hours
Cycle Life	Up to 6000 deep cycles
Expected Service Life	10+ years
Dimensions (D x W x H)	9.37" x 20.55" x 8.58"
Weight	70 pounds
Waterproof Rating	IP65
Connectivity	Built-in Bluetooth for mobile app monitoring
Model Number	V36_A105_C
UPC	717690263898



Image 3.1: Physical dimensions and weight of the Elefast 36V 105AH battery.

4. Key Features

- **A+ Grade LiFePO4 Cells:** Constructed with automotive-grade LiFePO4 Grade A+ cells, ensuring 100% real capacity, stable output, and a very low self-discharge rate. This design contributes to a longer lifespan and consistent performance.
- **Integrated Fast Charging System:** The included 43.8V 25A fast charger allows for a full charge from 0% to 100% in approximately 4 hours. For charges from below 50%, it can reach full capacity in about 2 hours. The battery is designed for up to 6000 deep cycles, offering a service life exceeding 10 years.
- **Built-in Bluetooth & 200A BMS:** Features a built-in 200A intelligent Battery Management System (BMS) that provides comprehensive protection against overcharging, over-discharging, overloading, high temperature, and short circuits. The integrated Bluetooth allows for real-time battery status monitoring via a mobile application.
- **Advanced Low Temperature Protection:** The BMS includes a low-temperature protection mechanism. Charging is automatically cut off when the battery temperature drops below 32°F (0°C). Discharge is protected below -4°F (-20°C). Operation resumes automatically when temperatures rise to safe levels, protecting the battery and extending

its life.

- **Wide Application Compatibility:** Designed for versatility, this battery is suitable for various applications including golf carts, RVs, boats, and trolling motors. Its IP65 rating ensures resistance to dust and water ingress.



Image 4.1: Internal components highlighting A+ grade LiFePO4 cells and the integrated 200A Bluetooth BMS.



Image 4.2: Manufacturing details, including laser welding and rigorous testing, ensuring high quality.

5. Setup and Installation

The Elefast 36V 105AH battery is designed for straightforward installation, often serving as a direct replacement for traditional lead-acid batteries in compatible systems.

5.1 Compatibility

This battery is compatible with the size and interface requirements of many golf carts and lawnmowers on the market, including brands like Ezgo, Club Car, Yamaha, Cub Cadet, Husqvarna, and Honda. It offers an easy upgrade with no complex wiring typically required.



Image 5.1: Illustrates compatibility with common golf cart and lawnmower brands.

5.2 Installation Steps (General Guidance)

1. **Safety First:** Ensure the vehicle or equipment is turned off and disconnected from any power sources before beginning installation. Wear appropriate personal protective equipment.
2. **Remove Old Batteries:** Carefully remove existing batteries, noting the wiring configuration. It is recommended to take photos for reference.
3. **Position New Battery:** Place the Elefast 36V 105AH battery in the designated battery compartment. Secure it using appropriate mounting brackets or straps to prevent movement during operation.
4. **Connect Wiring:** Connect the battery terminals according to your vehicle's wiring diagram. Ensure all connections are tight and secure.
5. **Install LCD Monitor:** Connect the 2.8-inch LCD touch monitor to the battery's dedicated port. Mount the monitor in a visible and accessible location.
6. **Initial Charge:** Before first use, fully charge the battery using the provided 43.8V 25A fast charger.

For specific vehicle models, consult your vehicle's service manual for detailed battery replacement procedures.

6. Operating Instructions

6.1 Charging the Battery

- Connect the provided 43.8V 25A fast charger to a standard AC power outlet.
- Connect the charger's output plug to the battery's charging port. The charger features a swivel charging connector to prevent accidental disconnection.
- The LCD monitor will display charging status. A full charge from empty typically takes 4 hours. If the battery is above 50% capacity, it can be fully charged in approximately 2 hours.
- Once fully charged, disconnect the charger from the battery and then from the AC outlet.



Image 6.1: Illustration of the battery charging process and the swivel charging connector.

6.2 Monitoring Battery Status

- **LCD Touch Monitor:** The included 2.8-inch LCD touch monitor provides real-time information such as State of Charge (SOC), voltage, current, and temperature.
- **Bluetooth Mobile App:** Download the Elefast mobile application (available for iOS and Android) to connect to the

battery via Bluetooth. The app offers detailed real-time monitoring of battery status, including individual cell voltages, cycle count, and diagnostic information.

6.3 Typical Range

On a single full charge, the battery can provide a range of up to 40 miles. Actual mileage may vary depending on factors such as terrain, load, driving style, and ambient temperature.



Image 6.2: Visual representation of the battery's potential range on a single charge.

7. Maintenance

Elefast LiFePO4 batteries are designed for minimal maintenance. However, following these guidelines will help ensure optimal performance and longevity:

- **Regular Inspection:** Periodically check battery terminals for cleanliness and tightness. Ensure there is no corrosion or damage to the battery casing.
- **Charging Habits:** While LiFePO4 batteries do not suffer from memory effect, it is generally good practice to fully charge the battery after significant discharge to maintain cell balance.
- **Storage:** If storing the battery for an extended period, ensure it is charged to approximately 50-70% capacity and stored in a cool, dry place away from direct sunlight and extreme temperatures.
- **Temperature Management:** The built-in BMS protects against extreme temperatures. Avoid operating or charging the battery outside its specified temperature ranges (Charging: 32°F-122°F / 0°C-50°C; Discharge: -4°F-140°F / -20°C-60°C).

8. Troubleshooting

The intelligent 200A BMS provides multiple layers of protection. If the battery appears to stop functioning, it may be due to one of the following protection mechanisms:

- **Overcharging Protection:** The BMS will cut off charging if the voltage exceeds safe limits. This prevents damage

to the battery cells.

- **Over-discharging Protection:** If the battery voltage drops below a safe minimum, the BMS will cut off discharge to prevent irreversible damage. Recharge the battery promptly.
- **Overloading Protection:** If the current draw exceeds the continuous or surge limits, the BMS will temporarily cut off power. Reduce the load to resume operation.
- **High Temperature Protection:** The BMS will cease charging or discharging if the internal temperature exceeds safe operating limits. Allow the battery to cool down.
- **Short Circuit Protection:** In the event of a short circuit, the BMS will immediately cut off power to prevent damage and fire hazards. Identify and resolve the short circuit before attempting to reconnect.
- **Low Temperature Charging Protection:** Charging will be disabled if the battery temperature is below 32°F (0°C). Move the battery to a warmer environment for charging.
- **Over-current Protection Auto-Release:** If an over-current event occurs, the protection will automatically release after approximately 32 seconds once the condition is resolved.

If the issue persists after addressing these points, please contact Elefast customer support for assistance.



Image 8.1: Overview of the BMS protection features and recommended temperature ranges for charging and discharging.

9. Safety Information

Adhere to the following safety precautions to prevent injury or damage:

- Do not disassemble, puncture, or modify the battery.
- Avoid exposing the battery to fire, extreme heat, or direct sunlight for prolonged periods.
- Do not immerse the battery in water or other liquids, despite its IP65 rating.
- Use only the provided Elefast charger or a compatible LiFePO4 charger with appropriate voltage and current specifications.
- Keep the battery away from children and pets.
- Ensure proper ventilation during charging and operation.
- Do not short-circuit the battery terminals.
- Handle the battery with care due to its weight (70 lbs).

10. Warranty and Support

Elefast provides a **5-year after-sales service** for this lithium iron phosphate battery. This warranty covers defects in materials and workmanship under normal use.

For technical support, product-related problems, or questions, please contact Elefast customer service. Our professional technical team is available to provide online support with fast feedback within 24 hours.

Contact information can typically be found on the Elefast official website or through your purchase platform.

© 2025 Elefast. All rights reserved.

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