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Elefast GOLF_36TH_105A

Elefast 36V 105AH Lithium Golf Cart Battery Kit User Manual

Model: GOLF_36TH_105A

Introduction

This manual provides essential information for the safe and efficient use of your Elefast 36V 105AH Lithium Golf Cart Battery Kit. Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of your battery. This kit includes the battery, a fast charger, and an LCD touchscreen for monitoring.



Image: The Elefast 36V 105AH Lithium Golf Cart Battery, accompanied by its 25A fast charger, a 2.8-inch LCD touchscreen, and a smartphone displaying the Bluetooth monitoring application.

Product Features

- **EVE-A+ Grade Cells:** Constructed with 12 EVE A+ grade 2C cells (LF105) within a high-strength cold rolled steel shell, designed for fast discharge and charge with excellent balance voltage performance. Delivers 4.03 kWh of energy and 8.06 kW of power.
- **Extended Cycle Life & Discharge:** Offers a deep cycle life of over 6000 times, providing stable performance and higher energy density. Supports up to 40 miles of continuous golf on a single charge and an inrush discharge current of up to 601A for challenging terrains.
- **Fast Charging & Real-time Display:** Includes a 43.8V 25A LiFePO4 charger, enabling a full charge from 0% to 100% in approximately 4.2 hours. Features a 2.8-inch LCD touchscreen for real-time battery status viewing and control.
- **Integrated BMS & Bluetooth Connectivity:** Equipped with a 200A smart Battery Management System (BMS) that

protects against overcharging, overdischarging, overloading, high temperature, short circuits, and low temperature. A mobile Bluetooth application allows for easy monitoring of battery status (SOC) and intelligent charge/discharge control.

- **Universal Compatibility & Safety:** Designed for compatibility with major golf cart brands such as EZGO, Club Car, Yamaha, and Icon. Installation is simplified with no complex wiring required. The battery is UL, IEC, CE, and RoHS certified, fireproof, shockproof, and meets IP66 waterproof standards.

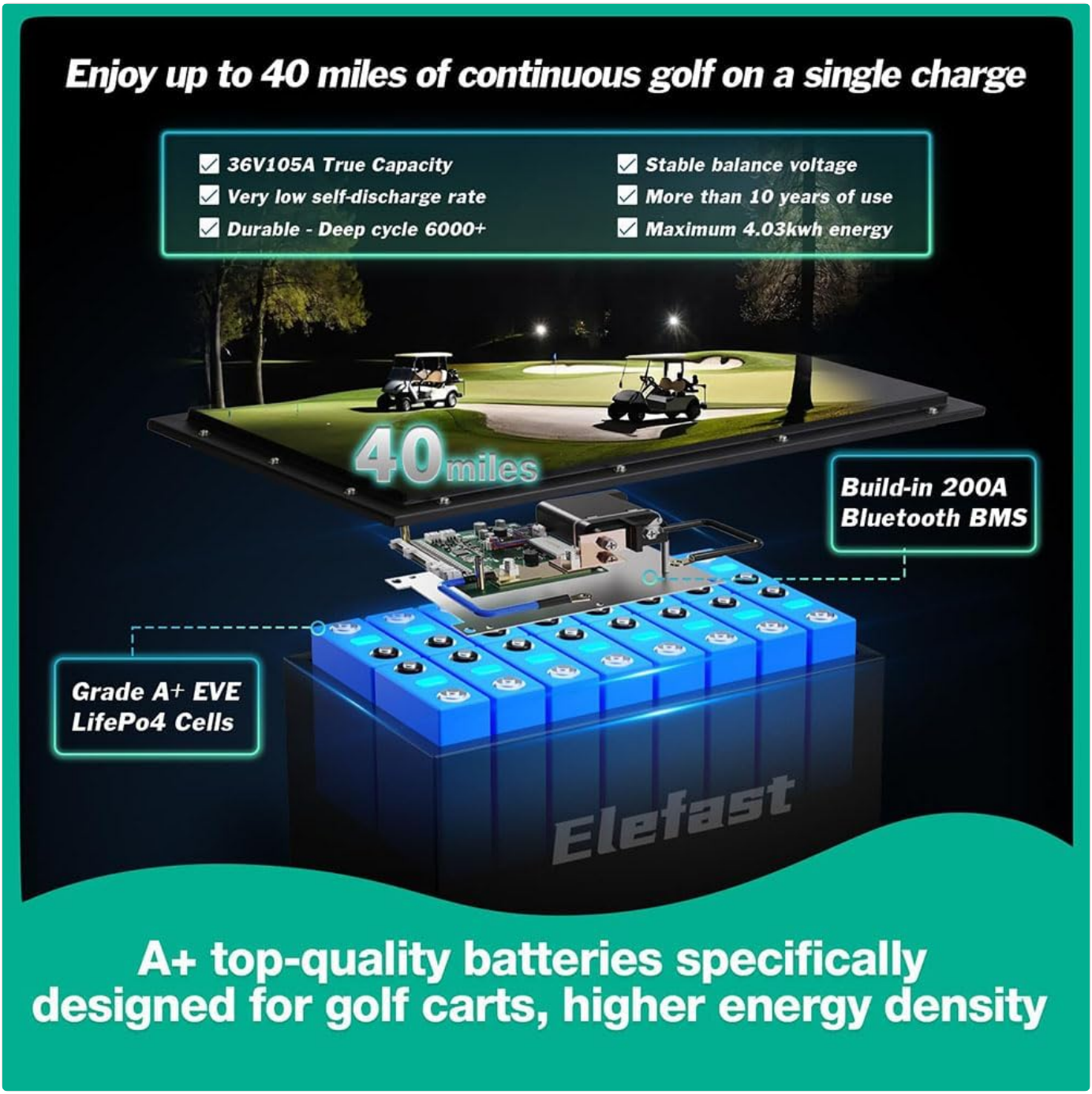


Image: An illustration highlighting key features such as 40 miles of range, 6000+ deep cycles, a built-in 200A Bluetooth BMS, and the use of Grade A+ EVE LiFePo4 Cells.



Image: A visual representation of the battery's physical dimensions (17.01"W x 13.14"D x 9.06"H) and its weight (90 lbs), emphasizing its sealed metal box construction for strength and safety.



Image: Depicts the battery's compatibility with Ezgo, Club Car, and Yamaha golf carts, highlighting its 200A BMS support for surge and instantaneous discharge, and ease of installation.

Package Contents

Your Elefast 36V 105AH Lithium Golf Cart Battery Kit includes the following items:

- Elefast 36V 105AH Battery Body
- 43.8V 25A Fast Charger
- 2.8-inch LCD Touch Screen
- User Manual (this document)
- RS485 Cable
- Mounting Screws and Bolts



Image: A detailed view of the accessories list, including the battery, charger, LCD display, user manual, RS485 cable, and various screws and bolts for installation.

Installation and Setup

The Elefast 36V 105AH Lithium Golf Cart Battery is designed for straightforward installation. It is compatible with major golf cart brands such as EZGO, Club Car, and Yamaha.

1. **Preparation:** Ensure your golf cart is turned off and in "Tow" mode if applicable. Disconnect existing battery systems, if any, following your golf cart's manufacturer guidelines.
2. **Placement:** Position the Elefast battery in the designated battery compartment. The robust metal casing allows for secure bolting.
3. **Connections:** Connect the battery terminals using the provided M8 bolts. Ensure proper polarity (positive to positive, negative to negative). Refer to the connection diagram for clarity.
4. **LCD Monitor Connection:** Connect the LCD monitor cable to the designated port on the battery.
5. **Charger Port Installation:** If converting from a different system, install the 110V charger port as needed.
6. **Secure Installation:** Secure the battery using appropriate fasteners to prevent movement during operation.

Note: If replacing lead-acid batteries, you may need to modify the battery rack for optimal fit and secure mounting. Consult a professional if unsure about modifications.



Image: Close-up of the battery's junction ports, including VINT, RS485, and Switch connections, along with a diagram illustrating the proper connection of the charger, controller, and LCD monitor using M8 terminal bolts.

Operating Instructions

Charging the Battery

The included 43.8V 25A LiFePO4 fast charger allows for efficient and rapid charging of your battery.

1. Connect the charger to a standard 110V AC power outlet.
2. Connect the charger's output plug to the battery's charging port. The swivel charging connector is designed to prevent accidental disconnection.
3. A full charge from 0% to 100% typically takes 4.2 hours. If the battery level is below 50%, it can be fully charged in approximately 2 hours.
4. Monitor the charging status via the 2.8-inch LCD touchscreen or the Bluetooth application.



Image: An illustration demonstrating the charging process, showing the 43.8V 25A charger connected to the battery, indicating a 4.2-hour full charge time and a 2-hour charge time when below 50%.

Using the LCD Touchscreen and Bluetooth APP

The 2.8-inch LCD touchscreen and integrated Bluetooth functionality provide real-time monitoring and control of your battery's status.

- **LCD Touchscreen:** The screen displays critical battery information such as State of Charge (SOC), voltage, current, temperature, and cycle count. Navigate through different data pages using the touch interface.
- **Bluetooth APP:** Download the Elefast battery monitoring application to your mobile device. Connect via Bluetooth to view detailed battery status, manage charging/discharging parameters, and receive alerts directly on your smartphone.



Image: Displays the 2.8-inch LCD touchscreen mounted in a golf cart dashboard, showing battery status, alongside a smartphone running the Elefast Bluetooth application for remote monitoring.

Maintenance and Safety

Battery Management System (BMS)

The built-in 200A smart BMS provides comprehensive protection for the battery, ensuring longevity and safe operation. This includes protection against:

- Overcharging
- Overdischarging
- Overloading
- High Temperature
- Short Circuits
- Low Temperature

The BMS automatically disconnects the battery if the temperature is below 32°F (0°C) or above 122°F (50°C) during charging, and below -4°F (-20°C) or above 140°F (60°C) during discharge. Operation resumes automatically when temperatures return to safe levels.



Image: Illustrates the upgraded smart 200A BMS with low temperature protection, detailing safe charging temperature (32°F~122°F) and discharge temperature (-4°F~140°F) ranges, and listing various protection features.

General Maintenance

- Regularly check all electrical connections for tightness and signs of corrosion.
- Keep the battery's exterior clean and free from dust, dirt, and debris.
- If storing the battery for extended periods, ensure it is in a cool, dry place and charged to approximately 50% State of Charge (SOC).
- Avoid exposing the battery to extreme temperatures outside its specified operating range.

Troubleshooting

If you encounter issues with your Elefast battery, consider the following troubleshooting steps:

- **Battery Not Charging:**
  - Ensure the charger is properly connected to both the AC outlet and the battery.
  - Check the charger's indicator lights for any error codes.
  - Verify that the ambient temperature is within the safe charging range (32°F to 122°F).
- **Battery Not Discharging/Power Output Issues:**
  - Check all power connections from the battery to the golf cart's controller.
  - Confirm that the ambient temperature is within the safe discharge range (-4°F to 140°F).
  - The BMS may have activated a protection mode (e.g., over-current, low voltage). Check the LCD or Bluetooth app for status. Over-current protection typically auto-releases within 32 seconds.
- **Bluetooth Connectivity Issues:**
  - Ensure Bluetooth is enabled on your mobile device.
  - Make sure you are within close range of the battery for a stable connection.
  - Restart the Bluetooth application or your mobile device if connection issues persist.

For persistent issues or problems not covered here, please contact Elefast customer support for assistance.

Specifications

Feature	Specification
Brand	Elefast
Model	GOLF_36TH_105A
Voltage	36V
Capacity	105AH
Product Dimensions (D x W x H)	13.15" x 17.01" x 9.06"
Item Weight	90 pounds
Terminal Type	M8
Charger Included	43.8V 25A LiFePO4 Fast Charger
BMS	Built-in 200A Smart BMS
Cycle Life	6000+ cycles
Bluetooth	Yes, with mobile APP
Display	2.8-inch LCD Touchscreen
Waterproof Rating	IP66
Automotive Fit Type	Universal Fit

Warranty and Support

Elefast is committed to providing high-quality products and customer service. For any technical assistance, warranty inquiries, or questions regarding your battery, please refer to the contact information provided with your purchase or visit the official Elefast website.

Please note that the product is returnable until January 31, 2026, as per Amazon's policy. For specific warranty terms and conditions, consult the documentation included with your product or the Elefast website.

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