Elefast 72V105AH

Elefast 72V 105AH Lithium Golf Cart Battery User Manual

Model: **72V105AH** | Brand: **Elefast**

1. Introduction

This manual provides essential instructions for the safe and efficient use of your Elefast 72V 105AH Lithium Golf Cart Battery. It covers installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your battery system. Please read this manual thoroughly before installation and use.
The Elefast 72V 105AH Lithium Golf Cart Battery is designed with A+ grade LiFePO4 cells, offering a high energy density and a long cycle life of over 8000 cycles. It features a built-in 200A Battery Management System (BMS) for comprehensive protection and includes an 83.9V 15A fast charger, a 2.8-inch LCD touch screen, and Bluetooth connectivity for real-time monitoring.

2. Safety Information

WARNING: Improper installation or use can lead to serious injury or damage. Always follow safety guidelines.

- Ensure all connections are secure and correctly polarized (positive to positive, negative to negative).
- Do not short-circuit the battery terminals.
- Avoid exposing the battery to extreme temperatures outside its operating range.
- Use only the provided 83.9V 15A LiFePO4 charger. Using an incompatible charger can damage the battery and pose a fire risk.
- The battery is heavy (approximately 140 pounds). Use appropriate lifting techniques or assistance during installation to prevent injury.
- Due to the battery's weight, the battery and charger, along with other accessories, will be shipped in two separate packages. Do not be alarmed if you receive one package before the other.
- The built-in BMS provides protection against overcharge, overdischarge, overcurrent, high/low temperature, and short circuits. However, always operate within recommended parameters.

3. What's in the Box (Packing List)

Upon receiving your Elefast 72V 105AH Lithium Golf Cart Battery, please verify that all components listed below are present. Note that items may arrive in separate packages.

- Elefast 73.6V 105AH Battery Body
- 83.9V 15A Fast Charger
- 2.8-inch LCD Touch Screen
- 73.6V 105AH User's Manual (Printed)
- Bluetooth Instruction Manual (Printed)
- RS485 Cable (for LCD connection)
- Charger AC IN Cable
- Charger DC OUT Cable
- M8 Terminal Bolts



Image: Contents of the Elefast 72V 105AH Lithium Golf Cart Battery package, including the battery, charger, LCD display, cables, and manuals.

Video: An unpacking demonstration of an Elefast golf cart lithium battery. Please note that this video features a 48V model, but the unpacking process and included accessories are generally similar to the 72V model.

4. Product Overview & Components

The Elefast 72V 105AH Lithium Golf Cart Battery is a robust power solution for golf carts and similar electric vehicles. It is housed in a high-strength cold-rolled metal plate shell for enhanced safety and durability.



Image: The Elefast 72V 105AH Lithium Golf Cart Battery, accompanied by its fast charger, LCD touch screen, and a mobile application interface.

4.1 Internal Structure and BMS

The battery utilizes automotive-grade LiFePO4 A+ cells, arranged to provide 73.6V and 105AH capacity. A sophisticated 200A BMS (Battery Management System) is integrated to monitor and protect the battery cells, ensuring safe and reliable operation.

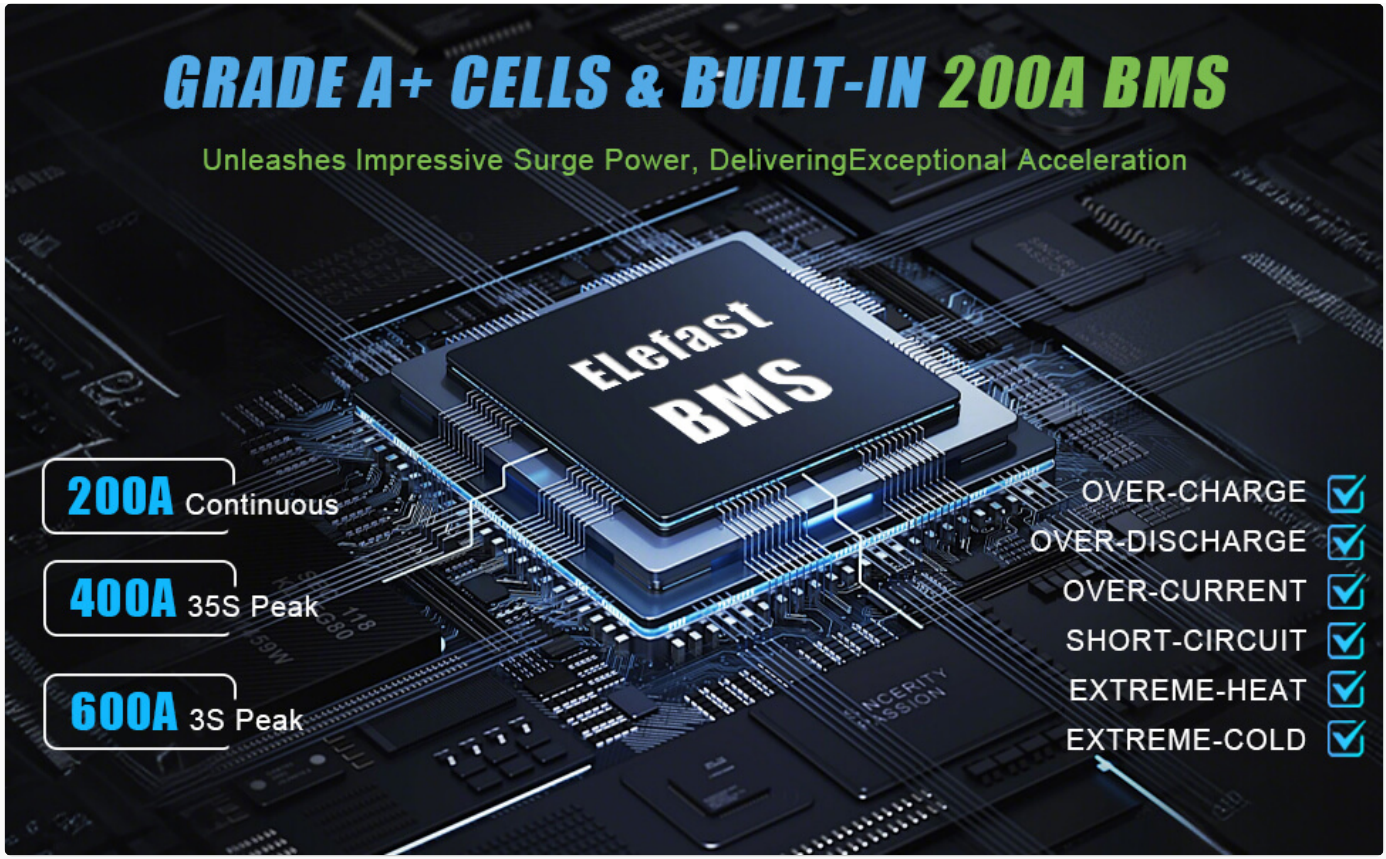


Image: An illustration showing the internal A+ grade cells and the integrated 200A BMS within the Elefast battery, highlighting its protective features.

4.2 Dimensions and Compatibility

The battery is designed to be a compact and lighter replacement for traditional lead-acid batteries in 72V golf carts. Its dimensions are 12.4"D x 21.65"W x 9.25"H, making it suitable for various golf cart models including Ezgo, Yamaha, and ClubCar.



Image: The Elefast battery positioned within a golf cart battery compartment, illustrating its dimensions and compact fit.

4.3 Monitoring Features

The battery system includes a 2.8-inch LCD touch screen and a Bluetooth APP for real-time monitoring of battery status, voltage, current, temperature, and other vital information. This allows for convenient control and awareness of your battery's performance.



Image: A user monitoring the Elefast battery status through both the dedicated LCD touch screen and a mobile application, showcasing real-time data display.

5. Setup & Installation

Installation of the Elefast 72V 105AH Lithium Golf Cart Battery is designed to be straightforward. However, if you are unsure about any steps, it is recommended to seek professional assistance.

5.1 Pre-Installation Checks

- Ensure your golf cart is turned off and the ignition key is removed.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Verify that the battery compartment in your golf cart can accommodate the dimensions of the Elefast battery (12.4"D x 21.65"W x 9.25"H).

5.2 Battery Placement

Carefully place the Elefast battery into the golf cart's battery compartment. Secure it using appropriate mounting hardware

to prevent movement during operation. The battery features handles for easier carrying and positioning.



Image: The Elefast battery showcasing its integrated handles for easy transport and the RS485 port and On/Off discharge switch on its side.

5.3 Wiring Connections

- Connect the positive (+) terminal of the battery to the positive (+) terminal of your golf cart's electrical system.
- Connect the negative (-) terminal of the battery to the negative (-) terminal of your golf cart's electrical system.
- Ensure all connections are tight and secure using the provided M8 terminal bolts.
- Connect the RS485 cable from the battery to the LCD touch screen for monitoring.

5.4 Initial Power-Up

After all connections are made, locate the On/Off discharge switch on the battery and turn it to the 'ON' position. The battery is now ready for operation.

6. Operating Instructions

6.1 Charging the Battery

Use the provided 83.9V 15A LiFePO4 fast charger. Connect the charger's DC OUT cable to the battery's charging port and the AC IN cable to a standard wall outlet. The charger supports fast charging, capable of charging the battery from 50% to 100% in approximately 3 hours.



Image: An illustration depicting the Elefast battery being fast-charged by its dedicated charger, highlighting the quick charging time.

6.2 Monitoring Battery Status

You can monitor the battery's status in two ways:

- **LCD Touch Screen:** The 2.8-inch LCD touch screen provides real-time information directly on your golf cart.
- **Bluetooth APP:** Download the dedicated mobile application to view battery status and power on your smartphone. Refer to the included Bluetooth Instruction Manual for pairing and app usage details.

6.3 Driving Range

The Elefast 72V 105AH battery is designed to provide an extended driving range. Under optimal conditions, you can expect up to 60 miles on a single charge. Actual range may vary based on terrain, golf cart load, driving style, and environmental factors.



Image: Various electric vehicles, including golf carts and sightseeing wagons, demonstrating the wide range of applications for the Elefast battery.

7. Maintenance

The Elefast LiFePO4 battery requires minimal maintenance compared to lead-acid batteries. Following these guidelines will help maximize its lifespan:

- **Regular Charging:** While the battery has a deep cycle capability, it is best practice to recharge it after each significant use.
- **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.
- **Cleaning:** Keep the battery terminals clean and free of corrosion. Use a dry cloth to wipe down the battery casing.
- **Low Temperature Cut-off:** The battery features an automatic low-temperature cut-off to prevent charging below 20°F (-7°C) and discharging below -4°F (-20°C). Charging will automatically resume when the temperature rises above 32°F (0°C).



Image: An illustration demonstrating the Elefast battery's low-temperature protection features, including cut-off temperatures for charging and discharging.

8. Troubleshooting

If you encounter issues with your Elefast battery, refer to the following general troubleshooting steps. For detailed diagnostics, consult the printed user manual included with your product or contact customer support.

- **Battery Not Powering On:** Ensure the On/Off discharge switch is in the 'ON' position. Check all terminal connections for tightness.
- **Battery Not Charging:** Verify the charger is properly connected to both the battery and a working AC outlet. Check if the ambient temperature is above 20°F (-7°C) as the battery has a low-temperature charging cut-off.
- **Low Performance/Reduced Range:** Ensure the battery is fully charged. Check for any error messages on the LCD screen or through the Bluetooth APP.
- **Bluetooth Connectivity Issues:** Refer to the Bluetooth Instruction Manual for pairing procedures. Ensure your mobile device's Bluetooth is enabled and within range.

9. Specifications

Feature	Specification
Brand	Elefast
Model	72V105AH
Product Dimensions	12.4"D x 21.65"W x 9.25"H
Terminal Type	Bolt Terminal
Automotive Fit Type	Universal Fit

Item Weight	140 pounds
Battery Type	LiFePO4 (Lithium Iron Phosphate) A+ Cells
Nominal Voltage	73.6V (72V nominal)
Capacity	105AH
Max Energy	7.728kWh
Continuous Discharge Current	Up to 200A
Peak Discharge Current	800A (1 second), 600A (3 seconds), 400A (35 seconds)
BMS	Built-in 200A BMS with comprehensive protection
Cycle Life	8000+ cycles
Charger	83.9V 15A Fast LiFePO4 Charger
Monitoring	2.8-inch LCD Touch Screen & Bluetooth APP
Low Temperature Protection	Charging cut-off < 20°F (-7°C), Discharging cut-off < -4°F (-20°C)

10. Warranty and Support

Elefast is committed to providing excellent customer service and product reliability.

10.1 Warranty Information

The Elefast 72V 105AH Lithium Golf Cart Battery comes with an**Ultra-long 5 Years After-sales Service**. This includes repair and replacement services for the entire battery unit.

10.2 Customer Support

For any inquiries, technical assistance, or warranty claims, please contact Elefast customer support. We have after-sales outlets located in both western and eastern USA, ensuring a quick response within 10 hours. A team of professional engineers is available to assist you.
You can also visit the official Elefast store for more information and support resources:Elefast Store on Amazon

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