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Elefast CA_SU48_GOLF

Elefast 48V 100AH Golf Cart Lithium Battery Kit User Manual

Model: CA_SU48_GOLF

Introduction

This manual provides essential information for the safe and efficient use of your Elefast 48V 100AH Lithium Battery Kit. This kit is designed for golf carts, solar energy systems, and off-grid applications, featuring A+ automotive-grade cells, a smart 200A BMS, and a 58.4V 18A charger. Please read this manual thoroughly before installation and operation.



Image: Overview of the Elefast 48V 100AH Lithium Battery Kit, highlighting its 100AH true capacity, deep cycle life, low self-discharge rate, 5.12kWh energy, balanced voltage, and 10-year lifespan. It also shows the 200A BMS and 1000A peak discharge capability.

What's in the Box

The Elefast 48V 100AH Lithium Battery Kit includes the following components:

- Battery Body (51.2V 100A Battery)
- 58.4V 18A Charger
- LCD Bluetooth Display
- Product Manual
- Charger AC OUT cable
- Charger AC IN cable
- Fixed Strap (x2)
- Insulation Cover (x2)

- Screws (x8)



Image: A visual representation of the Elefast 48V 100AH Lithium Battery Kit components, including the battery, charger, LCD Bluetooth display, and other accessories.

Your browser does not support the video tag.

Video: An unpacking list for the Elefast 105AH 48V Golf Cart Batteries, demonstrating the contents of the package. This video is provided by Elefast US.

Setup and Installation

Follow these steps for proper installation of your Elefast lithium battery kit. Ensure all connections are secure before operation.

1. **Prepare the Installation Area:** The battery weighs approximately 92.5 lbs (41.73 kg) and measures 20.47"W x 10.51"D x 8.66"H. Ensure the installation location in your golf cart or system can accommodate these dimensions and weight.
2. **Secure the Battery:** Use the provided fixed straps to securely mount the battery in its designated location. The thickened plastic casing is designed to be drop-resistant, shock-resistant, and heat-resistant.
3. **Connect the DC Cable:** Connect the DC output cable from the charger to the battery.
4. **Connect the Waterproof Connector:** Ensure the waterproof connector is properly engaged.
5. **Connect to Grid Power:** Plug the AC input cable of the charger into a suitable grid power outlet.
6. **Bluetooth Display Connection:** The LCD Bluetooth display can be connected to monitor battery status. Note that only one Bluetooth device (either the display or the mobile app) can be connected to the battery at a time.
7. **Compatibility:** This battery is compatible with major golf cart controllers from brands such as EZGO, Clubcar, Yamaha, and Icon. It serves as a direct replacement for 6 x 8V lead-acid batteries.



Image: Detailed view of the Elefast 48V 100AH Lithium Battery, showing its dimensions (20.47 in x 10.58 in x 8.66 in) and weight (92 lbs). Key components like A+ EV cells, 4 AWG cables, M8 bolt terminals, and the Bluetooth display are also indicated.

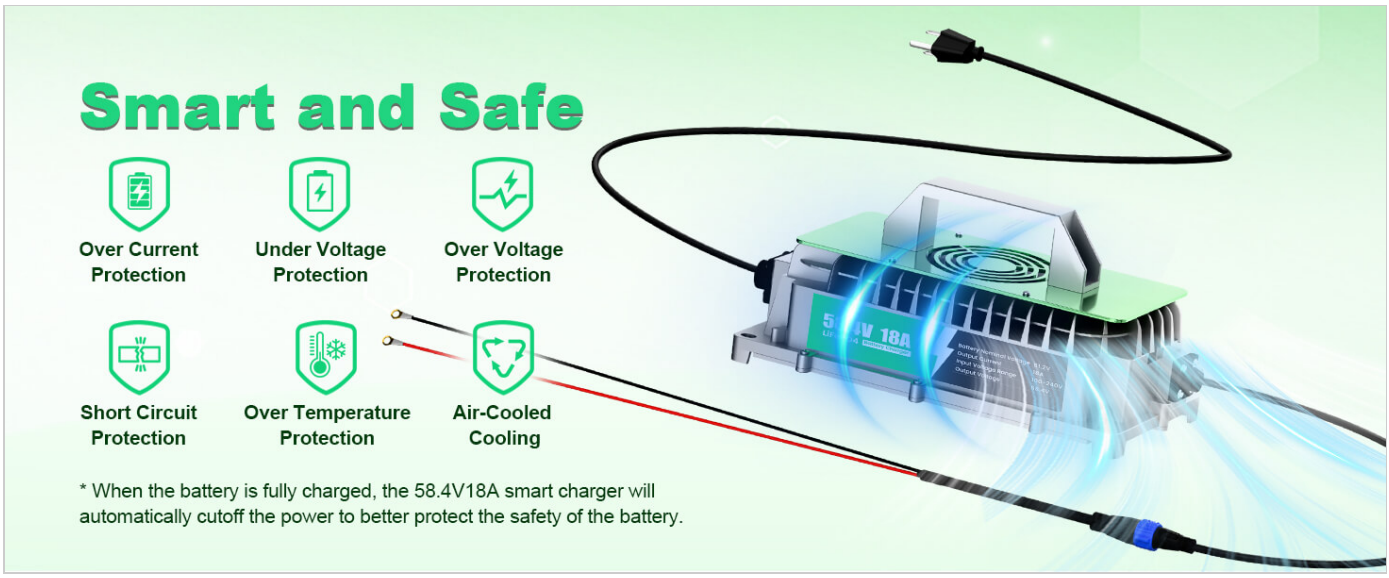


Image: Step-by-step guide on how to connect the Elefast 48V 100AH Lithium Battery to its charger and grid power.



Image: A golf cart ascending a hill, illustrating the battery's 1000A peak discharge capability for challenging terrains.

Operating Instructions

Charging the Battery

The included 58.4V 18A charger supports fast charging. It can charge the battery from 60% to 100% in approximately 2 hours. A full charge from 0% takes about 5.5 hours.

- Connect all cables as described in the Setup section.
- Plug the charger into a power outlet.
- Monitor the charger indication lights:
    - **Green Light On:** Fully Charged (100%)
    - **Red Light Fast Flash:** Precharging Stage (0%-10%)
    - **Red Light Slowly Flash:** Fast Charging Stage (10%-99%)
- Always charge the battery promptly when its charge level drops below 5% (46V).



Image: Illustration of the 58.4V 18A fast charger connected to the Elefast battery, showing charging progress and estimated times.

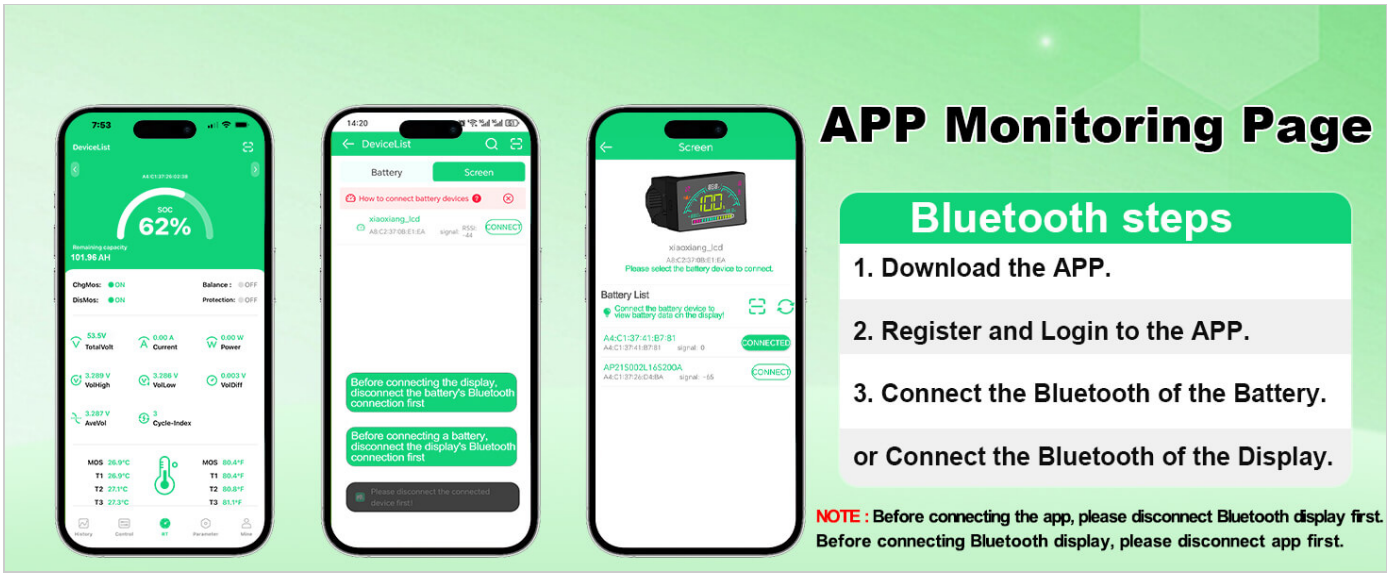


Image: Details of the Elefast charger's built-in fan cooling function and LED indicator meanings for charging status and fault analysis.

Monitoring Battery Status

The kit includes an LCD Bluetooth monitor and supports a mobile application for real-time battery status monitoring.

- **LCD Bluetooth Display:** This display shows battery voltage, charge level, discharge current, temperature, and the status of each cell. The settings page allows control over charging/discharging switches, screen-off time, and power off/screen-off functions.
- **Mobile APP:** Download the Elefast APP, register, and log in. Connect to the battery's Bluetooth or the display's Bluetooth.
- **Important Note:** Only one Bluetooth device (either the LCD display or the mobile app) can be connected to the battery's Bluetooth at a time. If a Bluetooth signal cannot be found, disconnect any other connected device.



Image: Demonstrates the two methods for monitoring the battery: via a mobile Bluetooth application and the dedicated Bluetooth screen, emphasizing that only one can be connected at a time.

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Video: A demonstration of the Bluetooth display functionality with the Elefast battery, showing how to navigate its settings and view battery information. This video is provided by Elefast US.

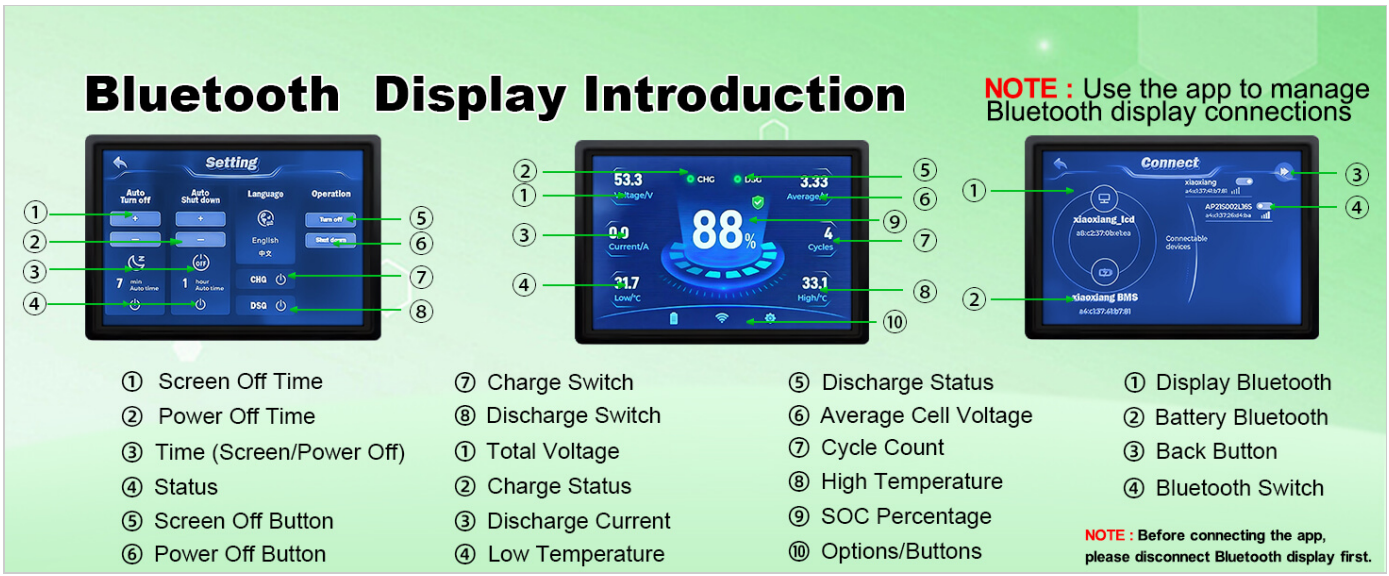


Image: Detailed introduction to the Bluetooth display interface and the mobile application monitoring page, including button functions and connection steps.

Performance and Range

The 48V Lifepo4 battery supports 2C discharge for 35 seconds and 3C discharge for 3 seconds, with a maximum current of 1000A. This provides rapid acceleration and instantaneous discharge for various terrains. On a single charge, you can expect up to 50 miles of continuous golfing, typically covering 8-10 rounds of 18-hole golf (42-58 miles range).



Image: A golfer on a course with a golf cart and the Elefast battery, illustrating the battery's range of 42-58 miles or 8-10 rounds of 18-hole golf on a single charge.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Elefast lithium battery.

- **Charging Habits:** After using the battery, especially if the charge is low, charge it promptly. Turn off headlights and the display screen, and remove the key when not in use to prevent unnecessary discharge.
- **Deep Cycle Life:** The battery is designed for a long lifespan of up to 8000 cycles.
- **Temperature Management:**
  - **Charging Temperature:** Maintain between 32°F (0°C) and 122°F (50°C). The BMS will automatically cut off charging if the temperature is below 32°F.
  - **Discharging Temperature:** Maintain between -4°F (-20°C) and 140°F (60°C). The BMS will stop discharging if the temperature is below -4°F.
  - **Storage Temperature:** For optimal long-term storage, keep the battery at or above 32°F (0°C).
- **Cleaning:** Keep the battery and terminals clean and free from debris.

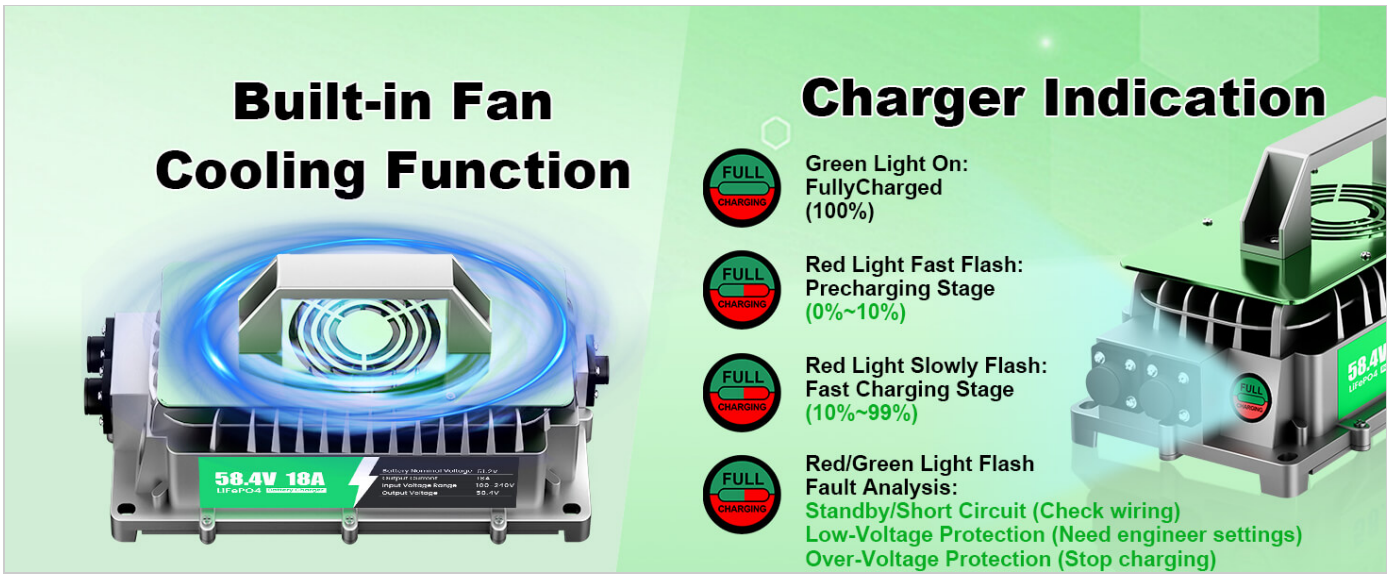


Image: Illustrates the low-temperature cut-off protection of the Elefast battery, showing temperature thresholds for stopping discharge, stopping charging, and optimal storage.

Troubleshooting

The Elefast battery features a built-in 200A Smart BMS (Battery Management System) to protect against various issues. If you encounter problems, refer to the following information.

BMS Protections

The Smart BMS automatically protects the battery from:

- Overcharging
- Over-discharging
- Overloading
- High Temperature
- Short Circuit

The BMS will automatically cut off charging if the battery temperature is lower than -4°F or lower than 32°F, and stop discharging if the temperature is below -4°F.



Image: Diagram illustrating the 200A BMS protection features against overcharging, over-discharging, over-current, overheating, and short circuits.

Charger Fault Analysis

If the charger indicator shows a Red/Green Light Flash, it indicates a fault. This could be due to:

- **Standby/Short Circuit:** Check wiring connections.
- **Low-Voltage Protection:** May require engineer settings.
- **Over-Voltage Protection:** Stop charging immediately.

Bluetooth Connection Issues

If you cannot connect to the battery via Bluetooth (either display or app), ensure that only one device is attempting to connect at a time. Disconnect any previously connected phone app or display before trying again.

Specifications

Feature	Specification
Brand	Elefast
Model	CA_SU48_GOLF
Rated Capacity	100 Ah (5120Wh)
Rated Voltage	51.2V
Voltage Range	40V-58.4V
Maximum Continuous Charging Current	200A
Maximum Continuous Discharging Current	200A
Peak Current	1000A (for 3 seconds)
Charging Voltage	58.4V
Dimensions (L x W x H)	20.47" x 10.51" x 8.66" (52.5cm x 26.8cm x 22.5cm)
Weight	92.5 lbs (41.73 kg)
Charging Temperature	32°F~122°F (0°C~50°C)
Discharging Temperature	-4°F~140°F (-20°C~60°C)
Battery Cell Composition	Lithium Iron Phosphate (LiFePO4)
Terminal Type	Bolt Terminal
BMS	Built-in Smart 200A BMS
IP Rating (Charger)	IP65

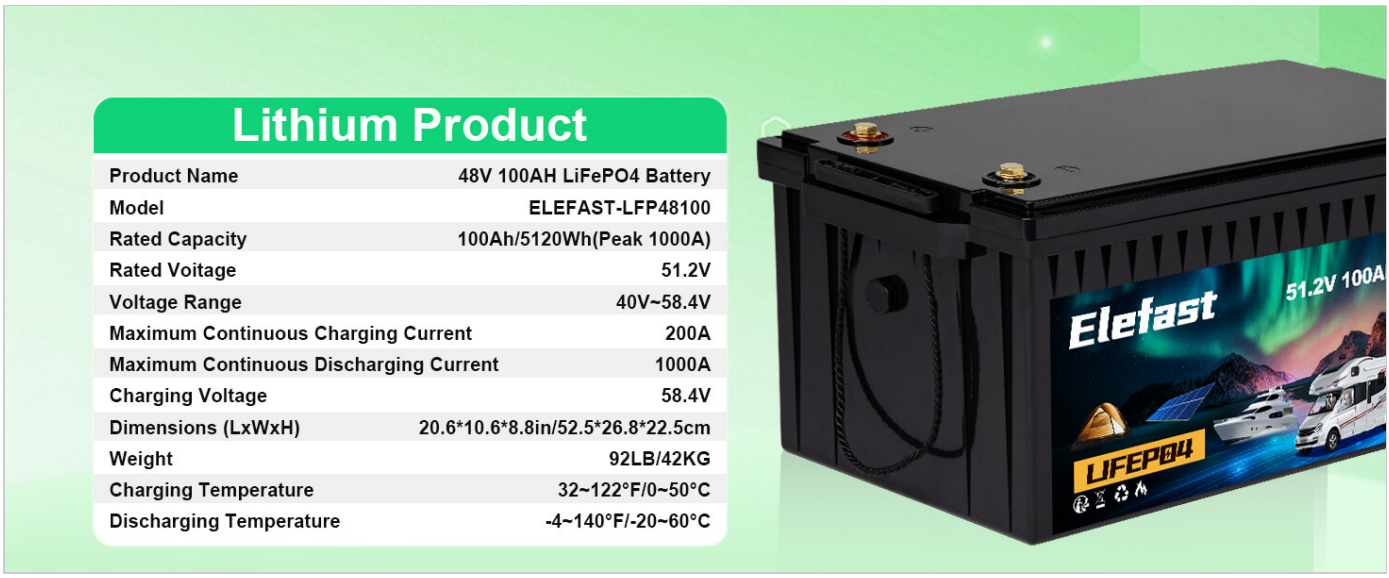


Image: A table summarizing the key specifications of the Elefast 48V 100AH LiFePO4 Battery, including model, capacity, voltage, currents, dimensions, and operating temperatures.

Warranty and Support

Elefast provides comprehensive after-sales service for your product.

- **Warranty:** A 5-year warranty is offered on the entire Golf Cart LiFePO4 battery and its accessories.
- **Technical Support:** Elefast has a professional engineering and after-sales team available to provide expert technical support.
- **Response Time:** Expect a rapid response to inquiries within 8 hours.
- **Contact:** For any product-related questions, please contact Elefast customer service.

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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.

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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.

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