

[Manuals.plus](#) /

› [CHINS](#) /

› CHINS 36V 100AH Lithium Battery User Manual

## CHINS LAF36100

# CHINS 36V 100AH Lithium Battery User Manual

Model: LAF36100

## 1. PRODUCT OVERVIEW

The CHINS 36V 100AH Lithium Battery is a high-performance LiFePO4 deep cycle battery designed for golf carts and other demanding applications. It features a built-in 200A Battery Management System (BMS) for enhanced safety and longevity, along with an integrated Bluetooth module for real-time monitoring via a dedicated mobile application. This package includes the 36V 100AH battery and a compatible 36V 25A charger.



Figure 1: The CHINS 36V 100AH Lithium Battery system, including the battery unit, external charger, and Bluetooth monitor. Also shown are the terminal bolts and caps.

## 2. KEY FEATURES AND BENEFITS

- **Smart Connectivity & Monitoring:** Equipped with an upgraded Bluetooth module and intuitive APP for real-time monitoring of voltage, cell balance, and temperature. Provides instant alerts for abnormal conditions and 24/7 remote diagnostics.
- **Enhanced Power & Performance:** Delivers 200A continuous discharge, enabling faster acceleration and sustained speeds of 25+ MPH for golf carts. Offers a range of 30+ miles per charge, even on inclines.
- **Rapid Charging & High Efficiency:** Includes a 36V 25A charger, capable of fully charging the battery in approximately 4 hours. Maintains 90% energy efficiency, significantly higher than traditional lead-acid batteries.
- **Effortless Installation:** Features pre-configured terminals and a compact, single-unit design that fits standard golf cart compartments (10.25 inches width). Reduces weight by 70% compared to lead-acid setups, requiring no welding.

or complex wiring.

- **Superior Durability & Safety:** IP65-rated casing provides resistance to vibrations and moisture. Operates reliably in temperatures from 32°F to 140°F. The multi-protection BMS prevents overcharge and overload with automatic cutoffs.
- **Long Cycle Life:** Offers 4000+ cycles at 80% Depth of Discharge (DoD), providing a service life 8 to 10 times longer than standard lead-acid batteries. Self-balancing cells contribute to extended lifespan.



Figure 2: Visual representation of the battery's key features, including its high cycle life, IP65 waterproof rating, and integrated BMS.

## 3. SETUP AND INSTALLATION

### 3.1 Unpacking and Inspection

Carefully unpack the battery and charger. Inspect all components for any signs of damage during transit. Ensure all listed items are present: the 36V 100AH battery, 36V 25A charger, Bluetooth monitor, terminal bolts, and caps.

### 3.2 Physical Dimensions and Weight

The battery dimensions are approximately 20.47 inches (D) x 10.59 inches (W) x 8.66 inches (H). It weighs approximately 64.6 pounds (29.3 kg). Verify that your golf cart's battery compartment can accommodate these dimensions and that the mounting surface is sturdy enough to support the weight.



Figure 3: Detailed dimensions of the CHINS 36V 100AH Lithium Battery, indicating its length, width, and height.

### 3.3 Installation Steps

1. **Safety First:** Before beginning installation, ensure the golf cart's power is completely off and disconnect any existing battery systems. Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
2. **Remove Old Batteries:** If replacing lead-acid batteries, carefully remove them. Note the original wiring configuration for reference.
3. **Position the CHINS Battery:** Place the CHINS 36V 100AH battery securely in the designated battery compartment. Ensure it is stable and will not shift during operation.
4. **Connect Terminals:** Connect the positive (+) and negative (-) terminals using the provided M8 bolts and caps. Ensure connections are tight and secure to prevent arcing or poor conductivity. Follow the golf cart manufacturer's wiring diagram for correct series/parallel connections if applicable, though this single unit typically simplifies the setup.
5. **Connect Charger and Monitor:** Connect the charger to the battery's charging port when ready to charge. Connect the Bluetooth monitor according to its specific instructions to enable real-time data access.
6. **Final Check:** Double-check all connections and ensure no loose wires or tools are left in the battery compartment.

Note: This battery is designed for universal fit in most golf cart compartments. No welding or complex wiring is typically required for replacement.

## 4. OPERATION

### 4.1 Initial Use

Before first use, it is recommended to fully charge the battery. Refer to the "Charging" section for detailed instructions.

### 4.2 Bluetooth Monitoring (APP)

The CHINS battery includes an integrated Bluetooth module for smart monitoring. Download the official CHINS battery monitoring application from your smartphone's app store. Once installed, pair your device with the battery via Bluetooth. The app will display real-time data such as:

- Voltage
- Current (Charge/Discharge)
- State of Charge (SOC)
- Cell Balance
- Temperature
- Cycle Count
- Alerts for abnormal conditions

## 3 WAYS TO CHARGE YOUR BATTERY

\*Recommended data for information purposes only

### Charger



**25A DEDICATED  
LiFePO4 Battery  
Charger**

### Solar Panel



**Solar Panels (≥800W)  
(around 1 day, as the  
effective light time is  
4.5 hrs per day)**

### Generators



**Generator  
(add a 20~40A DC to DC  
charger)**

Figure 4: Example of the CHINS battery monitoring application interface on a smartphone, displaying real-time battery data.

Regularly check the app for optimal usage and to identify any potential issues early.

## 5. CHARGING

The CHINS 36V 100AH Lithium Battery comes with a dedicated 36V 25A charger. Using this charger ensures optimal charging performance and battery longevity.

### 5.1 Charging Procedure

1. Ensure the charger is connected to a suitable AC power outlet.
2. Connect the charger's output plug to the battery's charging port.

3. The charger will indicate charging status (e.g., LED indicator).
4. A full charge from 0% to 100% typically takes approximately 4 hours with the included 25A charger.
5. Once fully charged, disconnect the charger from the battery and then from the AC outlet.

## 5.2 Alternative Charging Methods

While the included charger is recommended, the battery can also be charged via solar panels or generators, provided they meet the necessary voltage and current requirements for LiFePO<sub>4</sub> batteries.

- **Solar Panel:** Solar panels with a capacity of  $\geq 800\text{W}$  are recommended for effective charging, considering typical sunlight hours.
- **Generators:** A generator with a 20-40A DC to DC charger can be used.

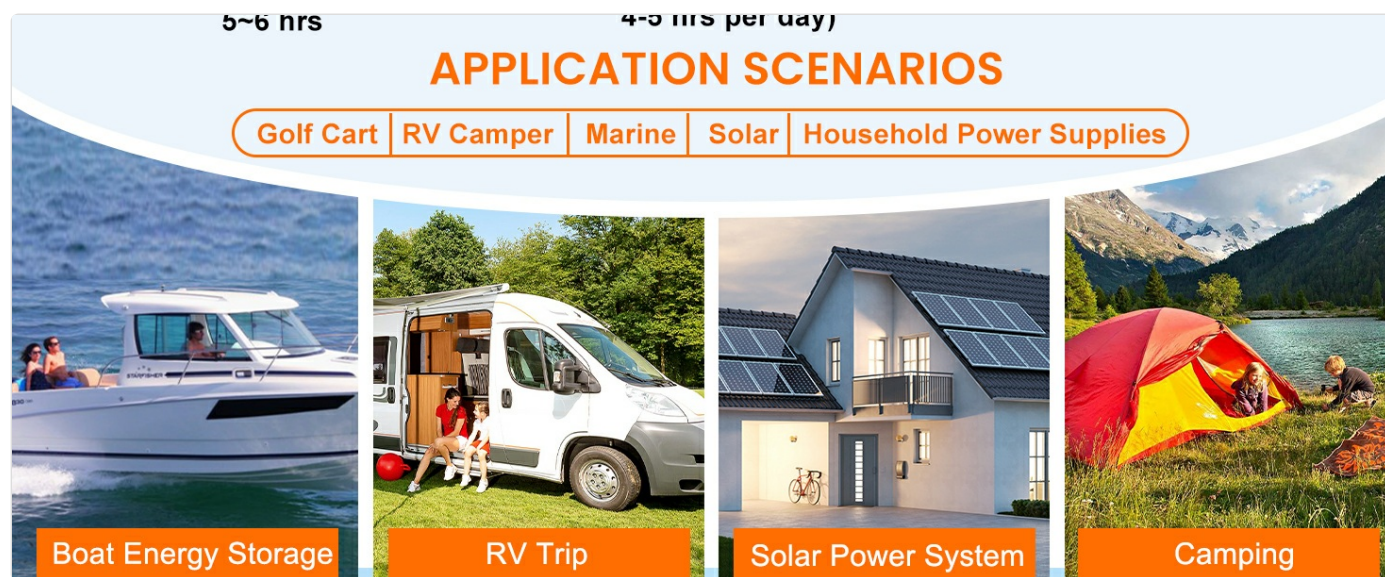


Figure 5: Overview of recommended charging methods for the CHINS battery, including the dedicated charger, solar panels, and generators.

## 6. MAINTENANCE AND STORAGE

### 6.1 Maintenance

The CHINS LiFePO<sub>4</sub> battery is designed to be largely maintenance-free. However, regular checks can help ensure optimal performance:

- **Terminal Inspection:** Periodically check battery terminals for cleanliness and tightness. Loose or corroded connections can lead to performance issues.
- **Physical Condition:** Inspect the battery casing for any signs of physical damage, cracks, or swelling.
- **Software Updates:** Keep the CHINS battery monitoring app updated to the latest version for improved features and stability.

### 6.2 Storage

For long-term storage, follow these guidelines:

- **Charge Level:** Store the battery at approximately 50% State of Charge (SOC). Avoid storing it fully discharged or fully charged for extended periods.
- **Temperature:** Store in a cool, dry place, ideally between 32°F (0°C) and 140°F (60°C). Avoid extreme temperatures.
- **Environment:** Ensure the storage area is free from moisture, direct sunlight, and corrosive materials.

- **Periodic Charging:** For very long storage periods (several months), it is advisable to check the battery's SOC every 3-6 months and recharge it to 50% if necessary.

## 7. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, contact CHINS customer support.

| Problem                          | Possible Cause                                                   | Solution                                                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery not charging             | Charger not connected, faulty charger, BMS protection activated. | Check charger connections and power supply. Ensure charger is compatible. If BMS is active (check app), disconnect and reconnect after a few minutes.                       |
| Low power output / Reduced range | Battery not fully charged, loose connections, excessive load.    | Ensure battery is fully charged. Check all terminal connections for tightness. Reduce electrical load if possible.                                                          |
| Bluetooth app not connecting     | Bluetooth off, app issue, battery too far.                       | Ensure Bluetooth is enabled on your device. Restart the app or your phone. Move closer to the battery. Check app permissions.                                               |
| Battery appears dead             | Deep discharge, BMS protection, faulty wiring.                   | Attempt to charge the battery with the dedicated charger. If BMS has shut down the battery, it may require a specific reset procedure (consult support). Verify all wiring. |

## 8. SPECIFICATIONS

| Attribute                    | Detail                           |
|------------------------------|----------------------------------|
| Brand                        | CHINS                            |
| Model Number                 | LAF36100                         |
| Battery Type                 | LiFePO4 (Lithium Iron Phosphate) |
| Nominal Voltage              | 36V                              |
| Capacity                     | 100AH                            |
| Energy Output                | 7.68kW                           |
| Continuous Discharge Current | 200A                             |
| Peak Discharge Current       | 1000A (3-5 seconds)              |
| Built-in BMS                 | Yes, 200A                        |
| Cycle Life                   | 4000+ cycles at 80% DoD          |

| Attribute                      | Detail                                          |
|--------------------------------|-------------------------------------------------|
| Operating Temperature          | 32°F to 140°F (0°C to 60°C)                     |
| IP Rating                      | IP65                                            |
| Product Dimensions (L x W x H) | 20.47" x 10.59" x 8.66" (520mm x 269mm x 220mm) |
| Item Weight                    | 64.6 pounds (29.3 kg)                           |
| Terminal Type                  | M8                                              |
| Included Charger               | 36V 25A                                         |
| Charging Time (0-100%)         | Approx. 4 hours (with included charger)         |
| Automotive Fit Type            | Universal Fit                                   |
| UPC                            | 768399952163                                    |

## 9. APPLICATION SCENARIOS

The CHINS 36V 100AH Lithium Battery is versatile and suitable for a wide range of deep cycle applications beyond golf carts, including:

- **Golf Carts:** Provides extended range and improved performance.
- **RV Campers:** Reliable power source for recreational vehicles.
- **Marine Applications:** Ideal for boats and trolling motors due to its durability and IP65 rating.
- **Solar Power Systems:** Efficient energy storage for off-grid or grid-tied solar installations.
- **Household Power Supplies:** Can be integrated into home backup power systems.



Figure 6: Examples of diverse applications for the CHINS 36V 100AH Lithium Battery, including marine, RV, and golf cart use.

## 10. WARRANTY AND SUPPORT

### 10.1 Warranty Information

CHINS batteries are designed for long-term reliability with a cycle life exceeding 4000 cycles. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact CHINS customer support directly. Extended protection plans may also be available for purchase from authorized retailers.

### 10.2 Customer Support

For technical assistance, troubleshooting, or any product-related inquiries, please contact CHINS customer support. In the United States, CHINS products are supported by authorized agents including CHINS-US, CHINS LiFePO4 Battery, and CHINS-STORE. Please reach out to the seller or the official CHINS website for contact details.

## 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

## Answered questions about this manual

### Why is the CHINS LAF36100 battery app asking for a password when I try to turn off charging, and what is the default password?

When using the CHINS Bluetooth monitoring application for the CHINS LAF36100 battery, certain control functions (like toggling the charge or discharge switch) are protected by a default password to prevent accidental changes. Try the following...

[Read full answer](#)