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› Norsk Lithium 12V 120AH LiFePO4 Deep Cycle Battery User Manual

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Model: 12V 120AH LiFePO4 Lithium Deep Cycle Battery

1. PRODUCT OVERVIEW

The Norsk Lithium 12V 120AH LiFePO4 Deep Cycle Battery is engineered for superior performance and longevity, ideal for marine electronics, trolling motors, RVs, and solar applications. Utilizing advanced Lithium Iron Phosphate (LiFePO4) chemistry, this battery offers significant advantages over traditional lead-acid batteries, including lighter weight, extended runtime, and faster charging capabilities.



Figure 1: Front view of the Norsk Lithium 12V 120AH LiFePO4 Deep Cycle Battery.

This battery is designed to be deeply discharged without losing capacity over time, ensuring a long and reliable lifespan. Its robust construction and intelligent features make it a dependable power solution for demanding environments.

2. KEY FEATURES AND BENEFITS

- **Advanced Battery Management System (BMS):** The integrated BMS acts as the 'brain' of the battery, providing crucial protections against short circuits, overcharging, and reverse polarity. It also includes temperature monitoring to ensure safe operation.
- **Thermal Core Heating Technology (Heated Version):** For the heated version of this battery, Thermal Core technology automatically warms the battery cells when charging at temperatures below freezing. This ensures a safe and efficient charge once the optimal temperature is reached, preserving battery life, especially in colder climates.
- **Bluetooth Connectivity & Norsk Guardian App:** Connect your smartphone to the battery via Bluetooth using the free Norsk Guardian App. This app allows you to monitor multiple batteries simultaneously, create custom battery groups, check charge status and current draw, set up alert notifications, and activate advanced features like Deep Sleep.
- **One-Touch Power Management Button:** Located on the top of the battery, this button, along with bright LEDs, allows for quick checks of battery status and activation of advanced features such as resetting the BMS or enabling Deep Sleep.
- **Deep Sleep Advanced Storage:** This feature allows you to easily disconnect power from the battery's terminals,

either through the Norsk Guardian App or the one-touch button. This eliminates phantom drain and prevents fully discharged batteries, making it perfect for seasonal or long-term storage.

- **IP67 Waterproof Rating:** The battery boasts an IP67 rating, ensuring complete protection against dust and water immersion up to 1 meter for 30 minutes, making it highly suitable for marine applications.
- **Extended Lifespan:** Rated for over 4,000 charge cycles, this battery offers an estimated lifespan of 15-20 years of dependable performance. A charge cycle is defined as completely draining and then fully recharging the battery.



Figure 2: Top view highlighting the Power Management Button and Bluetooth connectivity.

Video 1: Product Overview of the 12V 120AH Norsk Lithium Battery, detailing its features and benefits.

3. SETUP

1. **Initial Charging:** Before first use, ensure the battery is fully charged using a compatible LiFePO4 charger. Refer to your charger's manual for specific instructions.
2. **Physical Installation:** Install the battery in a secure, well-ventilated location. Connect your devices to the M8 posts and bolts terminals, ensuring correct polarity (red for positive, black for negative).
3. **Norsk Guardian App Connection:** Download the free Norsk Guardian App from your device's app store. Enable Bluetooth on your smartphone and open the app. Follow the in-app instructions to connect to your Norsk Lithium battery. You can monitor multiple batteries and create custom groups for easier management.

4. OPERATING THE BATTERY

- **Powering Devices:** Once connected, the battery will provide stable 12V power to your marine electronics, trolling motors, or other accessories.
- **Checking Battery Status:**
 - **Via Norsk Guardian App:** Open the app to view real-time charge status, voltage, current draw, temperature, and remaining capacity.
 - **Via One-Touch Power Management Button:** A quick press of the button on top of the battery will illuminate the LED indicators, showing the current state of charge.
- **Series/Parallel Connections:** This 12V 120AH battery can be combined in series for 24V or 36V trolling motor applications. Consult a qualified technician or the Norsk Lithium support for proper wiring configurations to ensure safety and optimal performance.
- **Activating Deep Sleep:** For long-term storage, activate Deep Sleep mode via the Norsk Guardian App or by a long press on the power management button (refer to the button's instructions on the battery label for specific light patterns). This will disconnect the battery's terminals internally, preventing self-discharge.

5. MAINTENANCE

- **Regular Charging:** For optimal lifespan, avoid prolonged storage in a fully discharged state. Recharge the battery after each significant use.
- **Cold Weather Charging:** If you have the heated version, the Thermal Core technology will manage charging in sub-freezing temperatures. For non-heated versions, avoid charging below 0°C (32°F) to prevent damage.
- **Long-Term Storage:** For storage periods exceeding one month, activate Deep Sleep mode. Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Keep the battery terminals clean and free of corrosion. Use a dry cloth to wipe down the battery case. Do not use harsh chemicals or abrasive cleaners.

6. TROUBLESHOOTING

If you encounter issues with your Norsk Lithium battery, consider the following common solutions:

- **Battery Not Powering On:** Ensure the battery is not in Deep Sleep mode. If it is, activate it via the app or the power management button. Check all cable connections for tightness and correct polarity.
- **Charging Issues:** Verify that your charger is compatible with LiFePO4 batteries and is functioning correctly. Ensure the battery temperature is within the safe charging range (above 0°C for non-heated, managed by Thermal Core for heated).
- **App Connectivity Problems:** Ensure Bluetooth is enabled on your phone and the battery is within range. Try restarting the app or your phone.
- **Resetting the BMS:** If the battery is unresponsive, you can reset the BMS by a specific sequence using the one-touch power management button (refer to the battery label for details) or through the Norsk Guardian App.

For persistent issues, refer to the detailed troubleshooting guide within the Norsk Guardian App or contact Norsk Lithium customer support.

7. SPECIFICATIONS



Figure 3: Back view with detailed specifications and caution information.

Specification	Value
Brand	Norsk Lithium
Model	12V 120AH LiFePO4 Lithium Deep Cycle Battery
Item Model Number	12V 120AH
Manufacturer Part Number	B12120G
ASIN	B0FB4D56ZG
Size	Group 27
Product Dimensions	12.04"D x 6.81"W x 8.85"H
Item Weight	29 pounds
Terminal	M8 posts and bolts
Automotive Fit Type	Vehicle Specific Fit

Specification	Value
Manufacturer	Norsk Lithium
UPC	850042818657
Batteries Required	1 Lithium Ion battery
Country of Origin	China

8. WARRANTY AND SUPPORT

Norsk Lithium stands behind the quality and durability of its batteries. The 12V 120AH LiFePO4 Deep Cycle Battery comes with a **10+2 year non-prorated warranty**. This includes a 10-year standard warranty, with an additional 2 years provided when you register your battery through the Norsk Guardian App.

For any questions, technical assistance, or warranty claims, please visit the official Norsk Lithium website or contact their customer support directly. Detailed contact information can be found on the Norsk Lithium brand store page on Amazon or their official website.

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Name

Anonymous

Email

you@example.com

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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