

Norsk Lithium 20-110

Norsk Lithium 12V 7.5Ah Lithium Ion Battery

MODEL: 20-110 USER MANUAL

Your guide to optimal performance and care.

1. INTRODUCTION

Thank you for choosing the Norsk Lithium 12V 7.5Ah Lithium Ion Battery. This ultra-lightweight battery is engineered for superior performance, especially for mechanical flashers, and features convenient built-in USB ports and a battery status indicator. This manual will guide you through the proper setup, operation, and maintenance to ensure you get the most out of your Norsk Lithium battery.

2. PRODUCT OVERVIEW

Key Features:

- **Ultra-Lightweight:** Weighs only 1.4 lbs, making it highly portable.
- **Dual USB Ports:** Built-in USB ports to power and charge multiple devices.
- **LED Power Indicator:** Easily check the remaining battery charge.
- **Battery Monitoring System:** Ensures internal integrity and optimal performance.
- **Long Cycle Life:** Designed for 1000+ charge cycles.
- **Optimized Chemistry:** Utilizes high-quality, Grade A Lithium-Ion cells for consistent power.

What's in the Box:

- 1 x Norsk Lithium 12V 7.5Ah Lithium Ion Battery (Model: 20-110)

Note: Charger is NOT included and must be purchased separately. Only use a Norsk Lithium 2A 12.6V Battery charger for optimal performance and compatibility with the internal battery management system.



Figure 2.1: Front view of the Norsk Lithium 12V 7.5Ah Lithium Ion Battery, highlighting the 7.5Ah capacity and Norsk Lithium branding.



Figure 2.2: Top view of the battery, clearly showing the two built-in USB ports and the 'Press for Status' battery indicator with LED lights.



BUILT-IN DUAL USB PORTS

Ice Fishing Batteries

Figure 2.3: Visual representation emphasizing the convenience of built-in dual USB ports for charging devices.



Figure 2.4: Graphic illustrating the integrated battery meter, allowing users to easily check the charge level.

3. SETUP

Initial Charging:

1. Before first use, fully charge your Norsk Lithium battery using a compatible Norsk Lithium 2A 12.6V charger.
2. Connect the charger to a power outlet and then to the battery's charging port.
3. The LED indicator on the battery will show charging progress. Refer to the charger's manual for specific charging light indicators.
4. Once fully charged, disconnect the charger.



Figure 3.1: Image indicating the necessity of using compatible Norsk Lithium chargers for proper battery function and longevity.



Figure 3.2: A Norsk Lithium charger with various cables, demonstrating its compatibility with both 7.5Ah and 15Ah Norsk Lithium batteries.

4. OPERATING INSTRUCTIONS

Connecting to Devices:

1. Ensure your device (e.g., mechanical flasher) is compatible with a 12V power source.
2. Connect the appropriate power cable from your device to the battery terminals. Ensure correct polarity (positive to positive, negative to negative).
3. For USB-powered devices, plug your USB cable into one of the two built-in USB ports.

Checking Battery Status:

- Press the 'Press for Status' button located on the top of the battery.
- The LED lights will illuminate to indicate the current charge level:
 - Green lights: Full to good charge.
 - Yellow/Orange light: Moderate charge, consider recharging soon.
 - Red light: Low charge, recharge immediately.

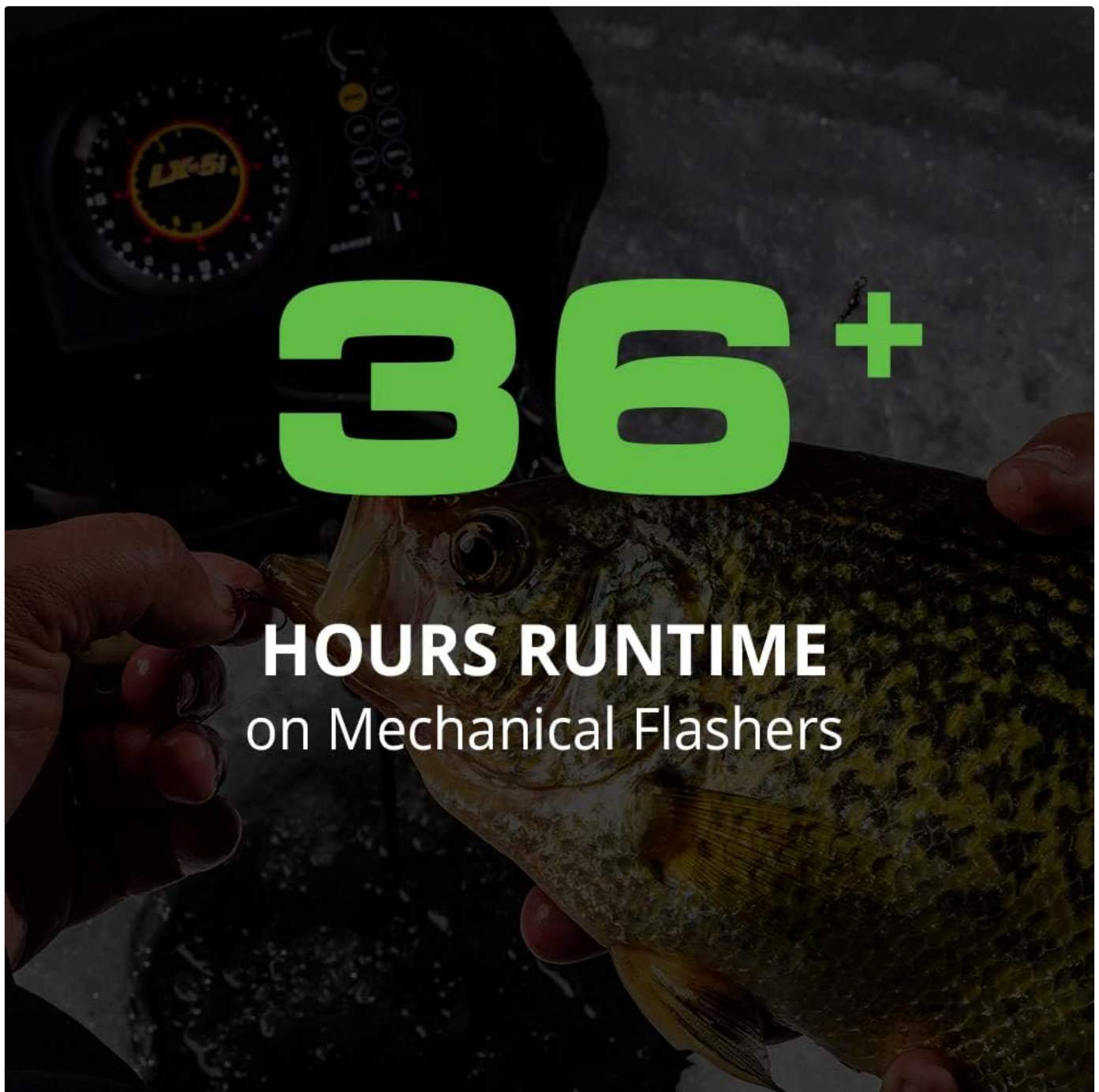


Figure 4.1: This graphic highlights the impressive runtime of over 36 hours when using the Norsk Lithium battery with mechanical flashers, ideal for extended outdoor use.

Video 4.1: Norsk Lithium 7.5Ah Lithium Battery Product Highlight Video. This short video showcases the key features and benefits of the Norsk Lithium 7.5Ah battery, including its lightweight design and suitability for mechanical flashers.

5. MAINTENANCE

Charging Guidelines:

- Always use the specified Norsk Lithium 2A 12.6V charger. Using an incompatible charger can damage the battery and void the warranty.
- Do not overcharge the battery. The internal Battery Management System (BMS) will protect against overcharging, but it's good practice to disconnect once fully charged.
- Charge the battery in a well-ventilated area, away from flammable materials.

Storage:

- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, ensure the battery is charged to approximately 50-70% capacity. Avoid storing it fully discharged or fully charged for extended periods.
- Periodically check the battery status during long-term storage and recharge if necessary.

Care and Handling:

- Avoid dropping the battery or subjecting it to severe impacts.
- Keep the battery terminals clean and free from corrosion.
- Do not disassemble, puncture, or modify the battery in any way.
- Keep out of reach of children.

6. TROUBLESHOOTING

Battery Not Charging:

- **Check Charger:** Ensure you are using a Norsk Lithium 2A 12.6V charger and that it is properly plugged into a working outlet.
- **Check Connections:** Verify that the charger is securely connected to the battery's charging port.
- **Battery Status:** If the battery is completely depleted, it might take a few minutes for the charger to register.

Device Not Powering On:

- **Check Battery Charge:** Press the 'Press for Status' button to ensure the battery has sufficient charge. Recharge if necessary.
- **Check Connections:** Ensure all cables are securely connected to both the battery and the device, and that polarity is correct.
- **Device Compatibility:** Confirm your device operates on 12V and is compatible with the battery's output.

USB Ports Not Working:

- **Check Battery Charge:** Ensure the battery has enough power to supply the USB devices.
- **Check USB Cable:** Try a different USB cable to rule out a faulty cable.
- **Device Compatibility:** Some high-power devices may not charge optimally via the USB ports.

7. SPECIFICATIONS

Specification	Value
Model Number	20-110
Battery Type	Lithium Ion
Voltage	12V (Operating range: 8.4V - 12.6V)
Capacity	7.5 Amp Hours (Ah)
Energy	84.24 Wh (approx.)
Weight	1.4 lbs (0.64 kg)
Dimensions (L x W x H)	5.94 x 2.56 x 3.66 inches (15.09 x 6.50 x 9.30 cm)

Specification	Value
Charge Cycles	1000+
USB Ports	2 (Built-in)
Battery Indicator	LED Status Indicator
Recommended Charger	Norsk Lithium 2A 12.6V Battery Charger (Not Included)

8. WARRANTY & SUPPORT

Warranty Information:

Norsk Lithium offers a **2-year limited warranty** on this 12V 7.5Ah Lithium Ion Battery. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, abuse, unauthorized modification, improper charging, or natural disasters.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact Norsk Lithium customer service. Our team is committed to providing unparalleled support to ensure your satisfaction.

- **Website:** Visit the [Norsk Lithium Store on Amazon](#) for more information and contact options.
- **Phone:** Refer to the product packaging or Norsk Lithium website for the most current contact number.

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