

## S7 21V Battery

# S7 21V Rechargeable Lithium Ion Battery User Manual

Model: 21V Battery

## 1. INTRODUCTION

This manual provides essential information for the safe and effective use of your S7 21V Rechargeable Lithium Ion Battery. This battery is designed as a replacement power source for various 21V compatible power tools, including mini electric chain saws (4-inch/6-inch), electric lawn mowers, weed blowers, electric pruning shears, drills, and leaf blowers. Please read this manual thoroughly before initial use and retain it for future reference.

## 2. SAFETY INSTRUCTIONS

To prevent personal injury or damage to the battery and connected tools, observe the following safety precautions:

- Charging:** Use only chargers specifically designed for 21V lithium-ion batteries. Do not attempt to charge non-rechargeable batteries.
- Storage:** Store the battery in a cool, dry place away from direct sunlight, heat sources, and moisture. Keep out of reach of children.
- Handling:** Do not short-circuit the battery terminals. Avoid dropping or subjecting the battery to strong impacts. Do not open, disassemble, or modify the battery pack.
- Temperature:** Do not expose the battery to temperatures above 60°C (140°F) or below -20°C (-4°F).
- Disposal:** Dispose of batteries responsibly according to local regulations. Do not dispose of in fire or water.
- Protection Features:** The S7 21V battery is equipped with overload protection, overheat protection, and over-discharge protection to enhance safety during use.
- Compatibility:** Ensure the battery interface is consistent with your power tool before purchase and use.

## 3. PRODUCT OVERVIEW

The S7 21V Lithium Ion Battery is designed for reliable performance with compatible power tools. Key features include:

- Voltage:** 21V
- Capacity:** 2.0Ah
- Type:** Lithium-ion
- Intelligent Power Indicator:** A 4-level LED indicator displays the remaining battery charge.
- Durability:** Constructed from high-quality ABS and metal materials.
- Protection:** Integrated overload, overheat, and over-discharge protection.



**Figure 3.1:** Front view of the S7 21V Lithium Ion Battery. This image shows the overall design of the battery pack, featuring its black casing and red accents.

**21V**

**COMPATIBLE WITH  
21V MAX\* TOOLS  
AND CHARGERS**



**STATE OF CHARGE  
INDICATOR**

**Figure 3.2:** S7 21V Lithium Ion Battery highlighting compatibility and the state of charge indicator. The image indicates that the battery is compatible with 21V MAX tools and chargers, and points to the LED charge indicator.



**Figure 3.3:** Detailed view of the 4-LED intelligent power indicator on the S7 21V battery. This shows the power button and the four LED lights that display the remaining battery level.

## 4. SETUP

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1. **Initial Charge:** Before first use, fully charge the battery using a compatible 21V lithium-ion battery charger. The 4-LED indicator will show the charging progress.
2. **Compatibility Check:** Verify that the battery's interface matches the power tool you intend to use it with. Refer to Figure 3.2 for a visual reference of the battery's connection points.
3. **Inserting the Battery:** Align the battery with the battery slot on your power tool. Slide the battery firmly into place until it clicks, indicating a secure connection.
4. **Removing the Battery:** Press the release button (usually red, as seen in Figure 3.1) and slide the battery out of the tool.

## 5. OPERATING THE BATTERY

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Once installed, the battery powers the connected tool. Observe the following during operation:

- **Power Indicator:** Periodically check the 4-LED indicator (Figure 3.3) to monitor the remaining charge. Recharge the battery when the indicator shows a low level to avoid interruptions.

- **Run Time:** A fully charged 2.0Ah battery typically provides 20-30 minutes of running time, depending on the tool and application intensity.
- **Overload Protection:** If the tool draws excessive current, the battery's overload protection may temporarily shut down power to prevent damage. Reduce the load on the tool and restart.
- **Overheat Protection:** If the battery becomes too hot during prolonged use, the overheat protection will activate. Allow the battery to cool down before resuming operation or charging.



**Figure 5.1:** The S7 21V Lithium Ion Battery shown in use with a mini electric chainsaw. This illustrates the battery's application as a power source for compatible tools.





Figure 5.2: The S7 21V Lithium Ion Battery displayed alongside a range of compatible 21V power tools, including drills, angle grinders, electric chain saws, and blowers, demonstrating its versatility.

## 6. MAINTENANCE

- **Charging:** Recharge the battery after each use or when the charge indicator shows a low level. Avoid completely draining the battery frequently, as this can reduce its lifespan.
- **Cleaning:** Keep the battery terminals clean and free from dust and debris. Use a dry cloth to wipe the battery exterior. Do not use liquids or solvents.
- **Long-Term Storage:** For extended storage, charge the battery to approximately 50-70% capacity. Store in a cool, dry place. Avoid storing fully charged or fully discharged batteries for long periods.
- **Inspection:** Periodically inspect the battery for any signs of damage, such as cracks, swelling, or corrosion on the terminals. Do not use a damaged battery.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Battery not charging.	Charger not connected, faulty charger, or battery too hot/cold.	Ensure charger is properly connected. Use a compatible charger. Allow battery to reach room temperature before charging.
Battery not powering tool.	Battery discharged, improperly inserted, or tool malfunction.	Check battery charge level and recharge if necessary. Reinsert battery firmly. Test with another compatible tool if possible.
LED indicator not lighting up.	Battery completely discharged or internal fault.	Attempt to charge the battery. If still unresponsive, the battery may be faulty.
Battery gets excessively hot during use/charging.	Overload, faulty battery, or charger issue.	Stop use immediately. Allow battery to cool. If problem persists, discontinue use and contact support.

## 8. SPECIFICATIONS

Feature	Detail
Product Dimensions	4 x 3 x 2 inches
Item Weight	10.2 ounces
Item Model Number	21V Battery
Battery Type	Lithium Ion
Battery Capacity	2000 Milliamp Hours (2.0Ah)
Voltage	21V
Recommended Uses	Power Tool (e.g., mini electric chain saws, lawn mowers, drills)
Manufacturer	WIN-WIN

## 9. SUPPORT

For any questions, concerns, or if you are not completely satisfied with your S7 21V Rechargeable Lithium Ion Battery, please contact the seller directly through your Amazon order page. Locate your order and click on "Contact Seller" or "Get Order Help" for assistance.

