Makita BL1850B

Makita BL1850B 18V 5.0Ah Lithium-Ion Battery Pack User Manual

Model: BL1850B

Introduction

This manual provides essential information for the safe and effective use of your Makita BL1850B 18V 5.0Ah Lithium-Ion Battery Pack. Please read this manual thoroughly before use and retain it for future reference. The Makita BL1850B battery pack is designed to provide reliable power for a wide range of Makita 18V cordless tools, featuring advanced STAR Protection Computer Controls™ for enhanced performance and battery life.

Safety Information

Always observe the following safety precautions when handling, charging, or using the battery pack:

- Do not disassemble, open, or shred battery packs.
- Do not expose battery packs to heat or fire. Avoid storage in direct sunlight.
- Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.
- Do not subject battery packs to mechanical shock.
- In the event of a battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Keep battery packs clean and dry.
- Recharge only with the charger specified by Makita.
- Do not use any charger other than that specifically provided for use with the equipment.
- Do not use any battery pack which is not designed for use with the equipment.
- Keep battery packs out of the reach of children.
- Seek medical advice immediately if a battery pack has been swallowed.
- Properly dispose of battery packs according to local regulations.

The battery pack features **STAR Protection Computer Controls™**, which is communication technology that allows the tool and battery to monitor conditions and exchange data in real time to protect against overloading, over-discharging, and overheating.



Image: Bottom label of the Makita BL1850B battery showing disposal, no fire, recycle, and other warning symbols.

Product Overview

The Makita BL1850B is an 18V 5.0Ah Lithium-Ion battery pack designed for use with Makita's 18V LXT cordless tools. It offers extended run time and features Makita's exclusive STAR Protection Computer Controls™ for optimized performance and battery life.



Image: Two Makita BL1850B 18V 5.0Ah Lithium-Ion battery packs, as included in the twin pack.



Image: Side view of a single Makita BL1850B battery, highlighting the Makita logo, 5.0Ah, and 18V Lithium-Ion branding.

Key Features:

- **Voltage:** 18V
- **Capacity:** 5.0 Amp-hour (Ah)

- **Battery Type:** Lithium-Ion (Li-ion)
- **STAR Protection Computer Controls™:** Protects against overloading, over-discharging, and overheating.
- **Low Self-Discharge:** Maintains charge for longer periods when not in use.
- **Longer Run Time:** Provides extended operation for compatible tools.
- **Fast Charge Time:** Compatible with Makita rapid chargers for quick recharging.

Setup and Charging

Initial Charge:

Before first use, fully charge the battery pack using a compatible Makita Lithium-Ion charger. A full charge typically takes approximately 45 minutes with a Makita rapid charger.

Charging Procedure:

1. Ensure the charger is plugged into a standard power outlet.
2. Slide the battery pack into the charger until it clicks into place.
3. The charger's indicator lights will show the charging status. Refer to your specific charger's manual for detailed light patterns.
4. Once charging is complete, remove the battery pack from the charger.

It is recommended to charge batteries in a well-ventilated area, away from direct sunlight and heat sources.

Operating Instructions

Installing the Battery Pack:

1. Align the battery pack with the battery port on your Makita 18V cordless tool.
2. Slide the battery pack firmly into the tool until it locks into place with a click. Ensure it is securely seated before operation.

Removing the Battery Pack:

1. Locate the battery release button(s) on the tool.
2. Press and hold the release button(s) while sliding the battery pack out of the tool.

Battery Level Indicator:

Some Makita BL1850B battery packs feature an LED battery level indicator. Press the small button next to the LEDs to check the remaining battery charge.



Image: Angled view of the Makita BL1850B battery showing the battery level indicator with four LED lights.

- **4 Lights:** 75% - 100% charge
- **3 Lights:** 50% - 75% charge
- **2 Lights:** 25% - 50% charge
- **1 Light:** 0% - 25% charge (recharge soon)

Maintenance and Storage

Cleaning:

Wipe the battery pack with a clean, dry cloth. Do not use water or chemical cleaners. Keep the battery terminals clean to ensure good electrical contact.

Storage:

- Store battery packs in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, it is recommended to store Li-ion batteries at approximately 50% charge to prolong their lifespan.
- Do not store battery packs with metal objects that could short-circuit the terminals.

Battery Life:

The Li-ion range delivers significantly more working capacity during its lifetime compared to older battery technologies like Ni-Cad. To maximize battery life, avoid fully discharging the battery before recharging, and avoid storing fully discharged batteries for extended periods.

Troubleshooting

Battery Not Charging:

- Ensure the charger is properly plugged into a working power outlet.
- Verify the battery pack is fully seated in the charger.
- Check for any debris or damage on the battery terminals or charger contacts.
- If the battery or charger is excessively hot or cold, allow it to reach room temperature before attempting to charge.
- Consult your charger's manual for specific error codes or indicator light patterns.

Tool Not Operating with Battery:

- Ensure the battery pack is fully charged.
- Verify the battery pack is correctly installed and locked into the tool.
- Check if the tool itself has any issues (e.g., motor problems, switch malfunction).
- The STAR Protection Computer Controls™ may have shut down the tool due to overloading, over-discharging, or overheating. Allow the battery and tool to cool down before attempting to use again.

Specifications

Attribute	Value
Model Number	BL1850B
Voltage	18V
Battery Capacity	5.0 Ah
Battery Type	Lithium-Ion (Li-ion)
Compatible Tools	Makita 18V LXT series (e.g., DJR183Z, DJR185Z, DJV180Z, DJV181Z, DSS610Z, DSS611Z, DTD152Z, DTD154Z, DTM50Z, DTM51Z)
Weight	0.6 kg (1.32 lbs) per battery
Protection Features	STAR Protection Computer Controls™ (Overload, Over-Discharge, Over-heating protection)
Charge Time	Approx. 45 minutes (with Makita Rapid Charger)

Warranty and Support

For warranty information and customer support, please refer to the official Makita website or contact Makita customer service directly. Keep your proof of purchase for warranty claims.
Official Makita Website: www.makitatools.com

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