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› HiKOKI 14.4V Lithium-Ion Battery BSL1460 6.0Ah Instruction Manual

HiKOKI BSL1460

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1. PRODUCT OVERVIEW

The HiKOKI BSL1460 is a high-capacity 14.4V, 6.0Ah Lithium-Ion battery designed for use with HiKOKI (formerly Hitachi) 14.4V power tools. This battery provides extended runtime and features advanced protection mechanisms to ensure safe and reliable operation.

Key features include:

- **High Capacity:** 6.0Ah for prolonged use.
- **Compatibility:** Fully compatible with all HiKOKI 14.4V tools.
- **PSE Compliant:** Meets Electrical Appliance and Material Safety Act (PSE) standards.
- **Lightweight Design:** Optimized for user comfort.
- **Low Self-Discharge:** Ideal for long-term storage without significant power loss.
- **Multi-Protection Circuit:** Incorporates HiKOKI's unique protection system against overcharge, over-discharge, and overload.
- **Long Cycle Life:** Approximately 1,500 charge/discharge cycles.



Image 1.1: The HiKOKI 14.4V 6.0Ah Lithium-Ion Battery (Model BSL1460).



Image 1.2: Packaging for the HiKOKI BSL1460 Lithium-Ion Battery, showing 14.4V and 6.0Ah specifications.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using the battery. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

General Battery Safety

- Do not disassemble, open, or shred battery packs.
- 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 expose battery packs to heat or fire. Avoid storage in direct sunlight.
- Do not subject battery packs to mechanical shock.
- In the event of battery leakage, 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 HiKOKI.
- Do not use any battery pack not designed for use with the equipment.
- Keep battery packs out of the reach of children.

Integrated Protection Features

The BSL1460 battery is equipped with a multi-protection circuit to prevent damage and ensure user safety. This system monitors cell voltage and protects against:

- **Overload:** Prevents excessive current draw during operation.
- **Over-discharge:** Stops the battery from discharging below a safe voltage level, preserving battery life.
- **Overcharge:** Prevents the battery from being charged beyond its maximum capacity.

長寿命！充放電回数約1,500回※

多重保護回路により安全性の確保と電池充放電回数の長寿命化を実現



※当社調べ。14.4Vリチウムイオン電池（BSL1430、BSL1440、BSL1450、BSL1460）を当社充電器で充電した場合。
ただし、条件により異なる場合があります。

電気用品安全法（PSEマーク）対応



日立のリチウムイオン電池は高容量セル（400Wh/L以上）を使用しているため、電気用品安全法の規制対象（2008年11月20日より施行）となります。本製品はこれに対応しており、銘板にPSEマークを表示しております。

Image 2.1: Diagram illustrating the multi-protection circuit, showing safeguards against overload, over-discharge, and overcharge.

3. SETUP

Initial Charging

1. Ensure you are using a compatible HiKOKI 14.4V/18V battery charger, such as the UC18YDL.
2. Insert the BSL1460 battery securely into the charger.
3. Connect the charger to a suitable power outlet.
4. The charging indicator on the charger will show the charging status. A full charge typically takes approximately 30 minutes with the UC18YDL charger.
5. Once charging is complete, remove the battery from the charger.

Battery Installation

To install the battery into a compatible HiKOKI 14.4V power tool:

1. Align the battery with the battery slot on the power tool.

2. Slide the battery into the slot until it clicks securely into place. Ensure it is fully seated and locked.
3. To remove the battery, press the release button(s) on the battery or tool and slide the battery out.

4. OPERATING INSTRUCTIONS

Tool Compatibility

The BSL1460 battery is designed for seamless compatibility with all HiKOKI 14.4V power tools. It is crucial to only use this battery with tools that match its voltage specification. Using it with tools of different voltages or from other manufacturers may cause damage to the battery or the tool, and could pose a safety risk.



Image 4.1: Visual representation of the BSL1460 battery's compatibility with a wide range of HiKOKI 14.4V power tools.

The 6.0Ah capacity of the BSL1460 battery significantly increases the work volume compared to lower capacity batteries. For example, when driving 4.0 x 50mm screws into wood (without pilot holes) with a WH14DDL2 14.4V impact driver:

- A 3.0Ah battery (BSL1430) yields approximately 1,250 screws.
- A 5.0Ah battery (BSL1450) yields approximately 2,500 screws (approx. 2 times more).
- The 6.0Ah BSL1460 battery yields approximately 3,000 screws (approx. 2.4 times more).

Note: Actual work volume may vary depending on materials, conditions, and specific tool usage.

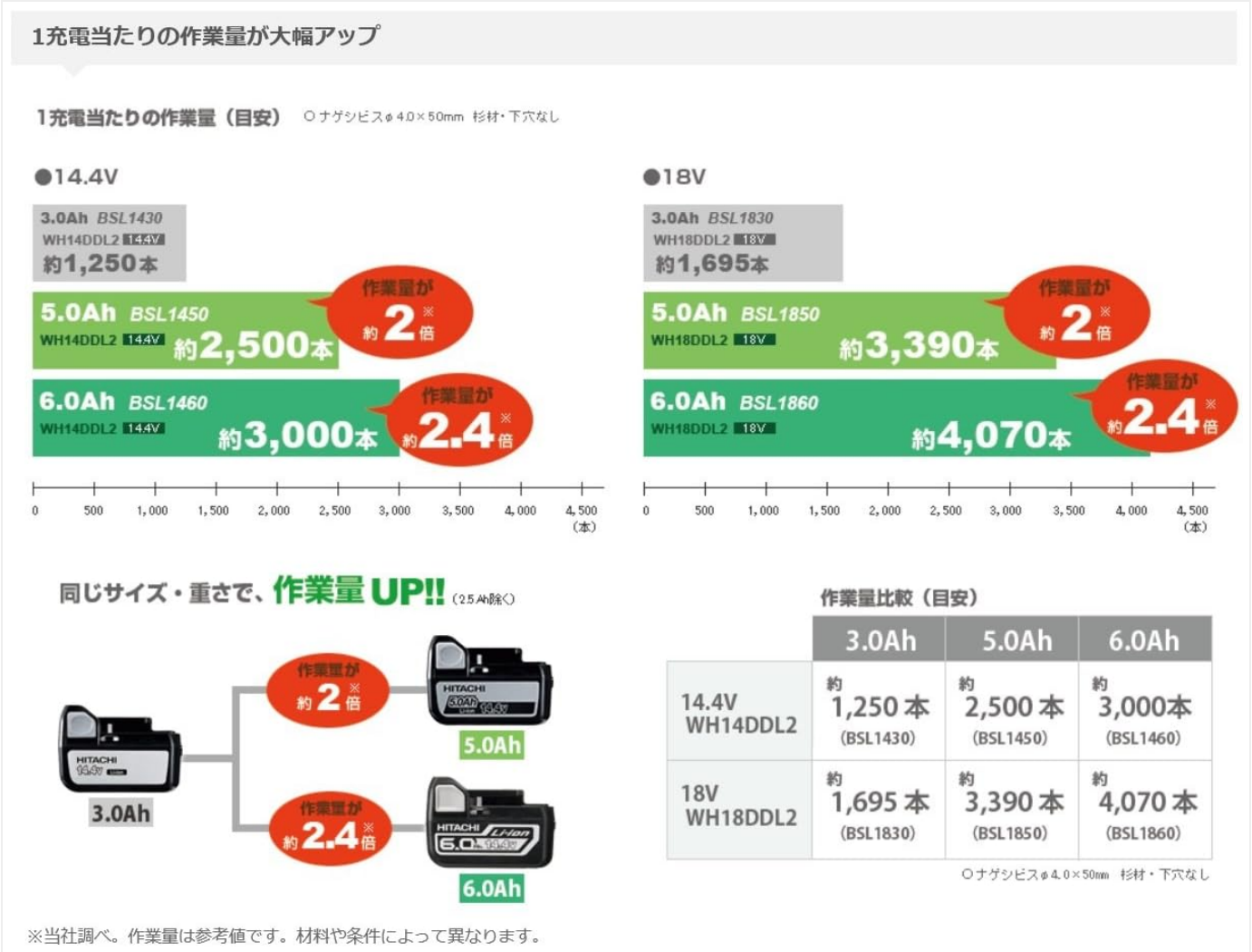


Image 4.2: Chart comparing the work volume of different capacity HiKOKI 14.4V and 18V batteries, highlighting the increased output of the 6.0Ah BSL1460.

5. MAINTENANCE AND STORAGE

General Maintenance

- Keep the battery terminals clean. Use a dry cloth to wipe off any dust or debris.
- Inspect the battery for any signs of damage, cracks, or leaks before each use. Do not use a damaged battery.

Storage

- Store the battery in a cool, dry place, away from direct sunlight, heat sources, and moisture.
- For long-term storage, it is recommended to store Lithium-Ion batteries with a partial charge (around 30-50% of full capacity) rather than fully charged or completely discharged.
- Due to its low self-discharge rate, the BSL1460 is well-suited for extended storage periods.

- Avoid storing the battery in temperatures below -10°C (14°F) or above 40°C (104°F).

Disposal

Lithium-Ion batteries should not be disposed of with household waste. Please follow local regulations for proper recycling and disposal of batteries. Contact your local waste management authority or HiKOKI service center for guidance.

6. TROUBLESHOOTING

If you experience issues with your BSL1460 battery, consider the following common troubleshooting steps:

- **Battery Not Charging:**
 - Ensure the charger is properly plugged into a working power outlet.
 - Verify that the battery is correctly inserted into the charger.
 - Check if the charger or battery is damaged. Do not use if damaged.
 - Ensure the charger is compatible with 14.4V Lithium-Ion batteries.
- **Tool Not Operating with Battery:**
 - Confirm the battery is fully charged.
 - Ensure the battery is securely installed in the tool.
 - Check if the tool itself is functioning correctly with another known-good battery (if available).
 - Verify that the tool is a compatible HiKOKI 14.4V model.
- **Reduced Runtime:**
 - Battery capacity naturally degrades over time and with usage cycles.
 - Ensure the battery is fully charged before use.
 - Operating in extreme temperatures (very hot or very cold) can temporarily reduce performance.

If these steps do not resolve the issue, please contact HiKOKI customer support or an authorized service center.

7. SPECIFICATIONS

Feature	Specification
Model Number	BSL1460
Voltage	14.4V
Capacity	6.0Ah (6000 mAh)
Battery Type	Lithium-Ion
Charge/Discharge Cycles	Approx. 1,500 cycles
Charging Time (with UC18YDL)	Approx. 30 minutes
Weight	0.54 kg (540 g)
Dimensions (L x W x H)	10 x 8.1 x 6.9 cm
Country of Origin	China

8. WARRANTY AND SUPPORT

Warranty Information

The HIKOKI BSL1460 Lithium-Ion battery comes with a **2-year warranty** from the date of purchase, or up to **1,500 charge/discharge cycles**, whichever comes first. This warranty covers defects in materials and workmanship under normal use as described in this manual.

To validate your warranty, please retain your Amazon delivery slip and the lithium-ion battery warranty card that came with the product. In the event of a malfunction under normal use according to the instruction manual, warranty service will be provided based on the contents of the warranty card.

Note: The warranty does not cover damage caused by misuse, abuse, unauthorized modification, or normal wear and tear.

Customer Support

For technical assistance, service, or warranty claims, please contact HiKOKI customer support through their official website or the retailer where the product was purchased. Have your product model number (BSL1460) and purchase information ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

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