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Hubei L17C4PH1

HBFVG BTY-M491 Laptop Battery User Manual

Model: L17C4PH1

INTRODUCTION

This manual provides essential information for the safe and effective use of your HBFVG BTY-M491 laptop battery. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of the battery.

The HBFVG BTY-M491 is a Li-ion battery designed for compatibility with various MSI Modern 15 series laptops, including models from the A10M, A10RAS, A10RB, A10RD, A11M, A11SB, A4M, A4MW, and Summit B15 A11M series.



A top-down view of the HBFVG BTY-M491 laptop battery, showing its overall shape and connection points.

SETUP AND INSTALLATION

Before installing the new battery, ensure your laptop is powered off and disconnected from the AC adapter. It is recommended to discharge any residual power by holding the power button for a few seconds after disconnecting the power source.

1. **Preparation:** Gather necessary tools, which may include a small Phillips head screwdriver and a plastic prying tool.
2. **Access the Battery Compartment:** Carefully open the laptop's back cover. Refer to your laptop's specific service manual for detailed instructions on accessing the internal components.
3. **Disconnect Old Battery:** Gently disconnect the old battery's cable from the motherboard. Unscrew any retaining screws holding the old battery in place.
4. **Remove Old Battery:** Carefully lift and remove the old battery from its compartment.
5. **Install New Battery:** Place the new HBFVG BTY-M491 battery into the compartment, ensuring it fits correctly. Secure it with the retaining screws if applicable.
6. **Connect New Battery:** Connect the new battery's cable to the motherboard. Ensure the connection is firm and secure. Pay attention to the interface type (black or white) if your laptop has variations.



An image comparing two types of battery interfaces, labeled 'Black interface' and 'White interface', to help identify the correct connection.

7. **Reassemble Laptop:** Carefully reattach the laptop's back cover, ensuring all clips and screws are properly secured.

8. **Initial Charge:** Connect the AC adapter and fully charge the new battery before its first use.

Caution: Improper installation can damage your laptop or the battery. If you are unsure, seek professional assistance.

OPERATING INSTRUCTIONS

The HBFVG BTY-M491 is a rechargeable lithium-ion battery. Proper charging and discharging practices contribute to its lifespan.

Charging

- Always use the original or a certified compatible AC adapter for charging.
- Charge the battery fully before its first use.
- Avoid frequent partial charges. It is generally better to let the battery discharge significantly before recharging.

Discharging

- It is not necessary to fully discharge the battery before recharging, but occasional full discharge cycles (once every 1-3 months) can help calibrate the battery meter.
- Avoid completely draining the battery to 0% frequently, as this can reduce its overall lifespan.

Rechargeable lithium-ion battery

Lithium polymer improves energy efficiency



A visual representation highlighting that the rechargeable lithium-ion battery uses lithium polymer to improve energy

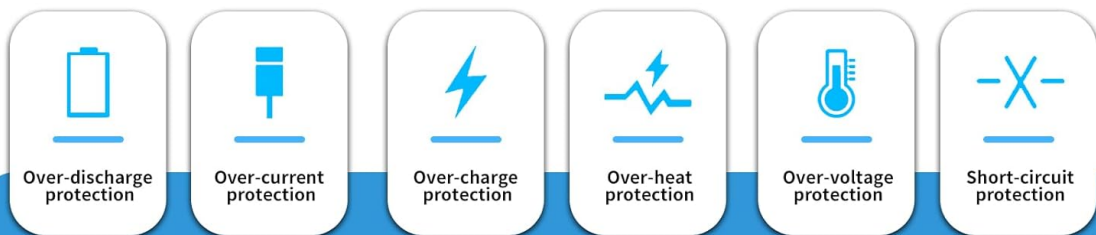
MAINTENANCE

Proper maintenance can extend the life and performance of your laptop battery.

- **Temperature Control:** Avoid exposing the battery to extreme temperatures (below 0°C or above 60°C). High temperatures can degrade battery performance and lifespan.
- **Storage:** If storing the battery for an extended period, ensure it is charged to about 50-70% and stored in a cool, dry place. Recharge it every few months to prevent deep discharge.
- **Cleaning:** Keep the battery contacts clean. Use a dry, soft cloth to wipe away any dust or debris.
- **Avoid Physical Damage:** Protect the battery from drops, impacts, and punctures.
- **Protection Features:** The battery is equipped with multiple protection features to ensure safety and longevity:

Rechargeable lithium-ion battery

Six features of products



An illustration detailing six protection features: Over-discharge, Over-current, Over-charge, Over-heat, Over-voltage, and Short-circuit protection.

- Over-discharge protection
- Over-current protection
- Over-charge protection
- Over-heat protection
- Over-voltage protection
- Short-circuit protection

TROUBLESHOOTING

If you encounter issues with your HBFVG BTY-M491 battery, consider the following common solutions:

Problem	Possible Cause	Solution
Battery not charging	Loose connection, faulty AC adapter, software issue, or battery fault.	Ensure battery cable is securely connected. Test with a different, known-good AC adapter. Update laptop's BIOS and battery drivers. Perform a power reset (remove battery, hold power button, then reinsert).
Battery not detected	Improper installation, driver issue, or hardware fault.	Re-install the battery, ensuring all connections are firm. Check Device Manager for battery drivers and reinstall if necessary. Verify compatibility with your specific laptop model.
Short battery life	High power consumption, background applications, or battery degradation.	Adjust power settings to optimize battery life. Close unnecessary background applications. Reduce screen brightness. Ensure proper ventilation to prevent overheating.

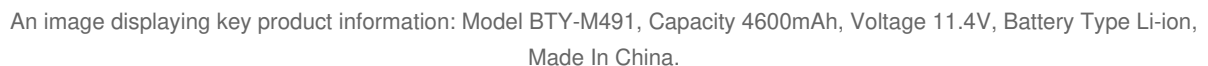
If problems persist after attempting these solutions, please contact customer support.

SPECIFICATIONS

Detailed technical specifications for the HBFVG BTY-M491 Laptop Battery:

Product information




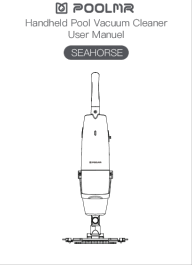


Made In:China



Attribute	Value
Battery Type	Li-ion
Voltage	11.4V
Capacity	52.4Wh (Watt-hours) / 4600mAh (Milliampere-hours)
Compatible Part Number	BTY-M491, 3ICP6/71/74
Compatible Laptop Series	MSI Modern 15 A10M (MS-1551), A10RAS (MS-1551), A10RB (MS-1551), A10RD (MS-1551), A11M (MS-1552), A11SB (MS-1552), A4M (MS-155K), A4MW (MS-155K), Summit B15 A11M Series
Certifications	CE/FCC/RoHS certified
Item Weight	9.6 ounces
Package Dimensions	11 x 5 x 1 inches

Product display



 <p>Robotic Pool Cleaner P1 Instructions</p> <p>Lydsto</p>	<p>Lydsto Robotic Pool Cleaner P1: User Manual and Instructions</p> <p>Comprehensive guide for the Lydsto Robotic Pool Cleaner P1, covering safety precautions, product description, installation, operation, daily maintenance, troubleshooting, and app control.</p>
 <p>GS5101 Automotive Driving Recorder</p>	<p>GS5101 Automotive Driving Recorder User Manual</p> <p>This user manual provides detailed instructions for installing and operating the GS5101 Automotive Driving Recorder by Ultinon Motion Technology (Hubei) Co.,Ltd. It covers Micro SD card installation, device setup, button functions, indicator lights, key features like forward collision warning and fatigue driving reminders, app integration, and troubleshooting.</p>
 <p>VEVOR®</p> <p>ICE CREAM MACHINE MANUAL</p>	<p>VEVOR Ice Cream Machine User Manual & Troubleshooting Guide</p> <p>Comprehensive user manual for VEVOR BJH288SR1B-Z and BJH288SR2JB-Y ice cream machines, covering safety, installation, operation, cleaning, maintenance, and troubleshooting for optimal performance.</p>
 <p>POOLMR Handheld Pool Vacuum Cleaner User Manual SEAHORSE</p>	<p>POOLMR SEAHORSE Handheld Pool Vacuum Cleaner User Manual</p> <p>Comprehensive user manual for the POOLMR SEAHORSE handheld pool vacuum cleaner, providing instructions for use, charging, maintenance, and troubleshooting. Learn how to effectively clean your pool or spa.</p>
 <p>AC EV Chargers User Manual</p>	<p>AC EV Chargers User Manual and Installation Guide</p> <p>Comprehensive user manual and installation guide for EVSE AC EV chargers, detailing product introduction, specifications, installation procedures, operation, troubleshooting, and mobile app usage for electric vehicle charging.</p>
 <p>STK-7009F Mobile Gaming Controller</p>	<p>STK-7009F Mobile Gaming Controller User Manual - Saitake</p> <p>Comprehensive user manual for the Saitake STK-7009F mobile gaming controller, covering setup, cloud gaming, key configuration, RGB lighting, and TURBO functions for Android and iOS devices.</p>