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Futurebatt L16L2PB2

Futurebatt L16L2PB2 Laptop Battery User Manual

For Lenovo IdeaPad 320, 330, 520, S145, V15, V145, V320, B320 Series

INTRODUCTION

This manual provides essential information for the safe and effective use of your Futurebatt L16L2PB2 laptop battery. This Li-ion battery features a voltage of 7.5V and a capacity of 4000mAh/30Wh, designed with 2 cells and capable of approximately 500 recharge cycles. Please read these instructions carefully before installation and use.

IMPORTANT SAFETY INFORMATION

- **Do not disassemble or alter the battery.** Unauthorized modifications can lead to fire, explosion, or other hazards.
- **Do not expose the battery to extreme temperatures.** Avoid direct sunlight, heat sources, or freezing conditions.
- **Do not short-circuit the battery terminals.** This can cause severe damage to the battery and pose a fire risk.
- **Keep the battery away from water and moisture.**
- **Dispose of used batteries responsibly** according to local regulations. Do not incinerate.
- This battery is equipped with multiple protection features including short-circuit, over-heating, over-charge, over-voltage, over-power, electromagnetic safety, anti-static effect, and over-discharge protection.

MULTIPLE PROTECTION

Make your use safer



Short-circuit protection



Over-heating protection



Over-charge protection



Over-voltage protection



Over power protection



Electromagnetic safety



Anti-static effect



Over discharge protection

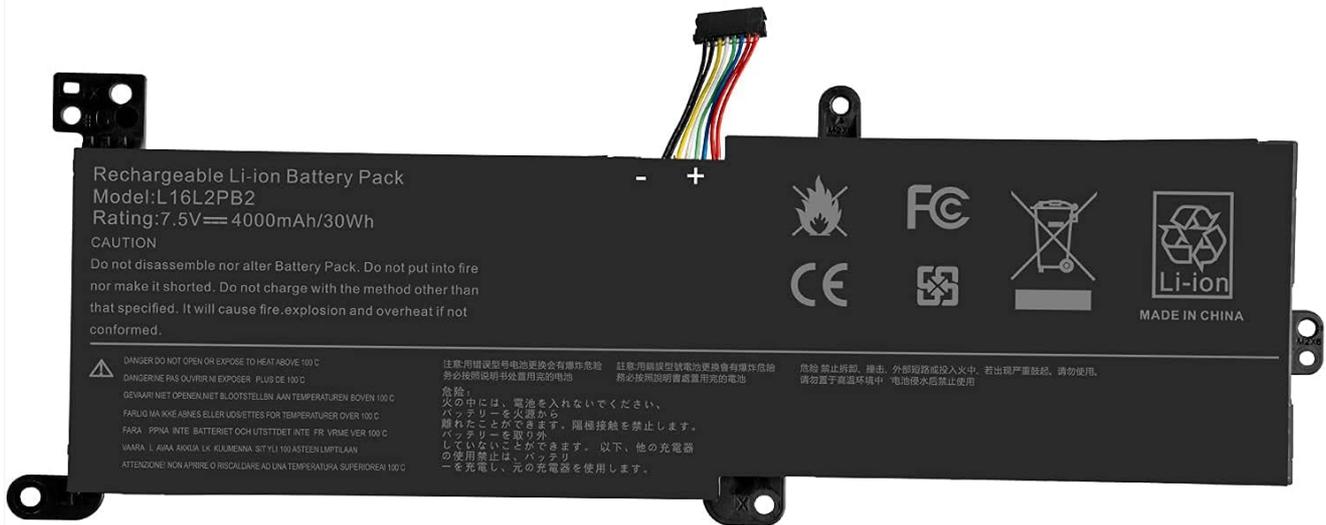


Figure 1: Battery protection features.

COMPATIBILITY

The Futurebatt L16L2PB2 battery is compatible with the following part numbers and Lenovo IdeaPad laptop series:

Compatible Part Numbers:

L16C2PB2, L16C2PB1, L16L2PB2, L16L2PB1, L16L2PB3, L16S2PB1, L16M2PB1, L16M2PB2, L16M2PB3, L17L2PF1, L17M2PB7.

Compatible Laptop Models:

- Lenovo IdeaPad 320 Series: 320-14AST, 320-14IAP, 320-14IKB, 320-14ISK, 320-15ABR, 320-15AST, 320-15IAP, 320-15IKB, 320-15ISK, 320-17ABR, 320-17AST, 320-17IKB, 320-17ISK
- Lenovo IdeaPad 130 Series: 130-14AST
- Lenovo IdeaPad 330 Series: 330-15IKB, 330-14AST, 330-14IGM, 330-14IKB, 330-15AST, 330-15IGM, 330-15IKB, 330-17AST, 330-17IKB
- Lenovo IdeaPad 520 Series: 520-15IKB
- Lenovo IdeaPad S145 Series: S145-15API, S145-15AST, S145-15IGM, S145-15IIL, S145-15IKB, S145-15IWL

- Lenovo V15 Series: V15-ADA, V15-IGL, V15-IIL, V15-IKB, V15-IWL
- Lenovo V145 Series: V145-15AST
- Lenovo V320 Series: V320-17IKB, V320-17ISK
- Lenovo B320 Series: B320-14IKB

Important: Before purchasing and installing, please refer to the image below and carefully check the shape, size, and connector of your original battery to ensure compatibility. Different factories may produce batteries with slight variations.



Figure 2: Battery shape and size comparison for compatibility check. Ensure your laptop uses the 'Short - 30Wh' type.

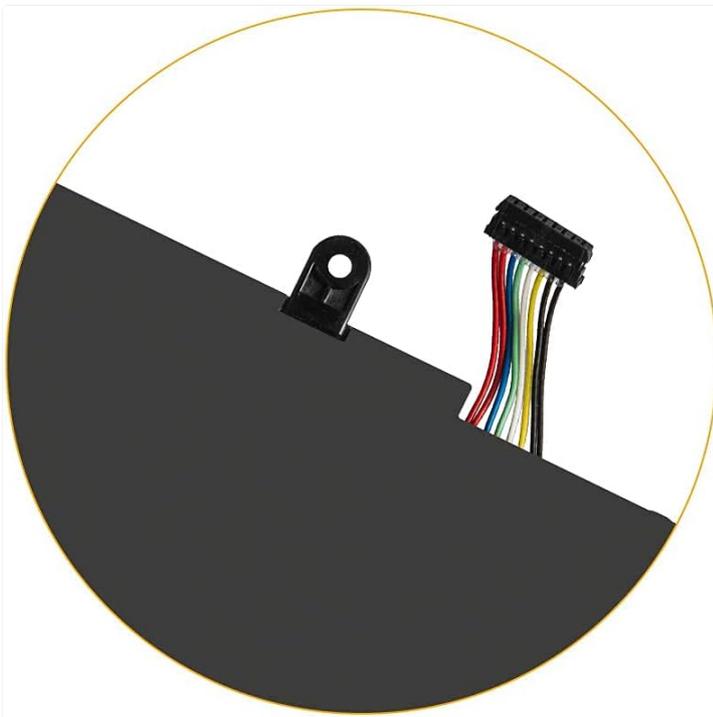
SETUP AND INSTALLATION

Replacing a laptop battery requires careful handling. If you are unsure, seek professional assistance. Always ensure your laptop is powered off and disconnected from the AC adapter before beginning installation.

1. **Power Off and Disconnect:** Shut down your laptop completely and unplug the AC adapter.
2. **Remove Back Cover:** Carefully remove the screws securing the laptop's bottom cover. Use appropriate tools to avoid stripping screws.
3. **Locate Old Battery:** Identify the existing battery inside the laptop.
4. **Disconnect Battery Cable:** Gently disconnect the battery cable from the motherboard. Be careful not to damage the connector.
5. **Remove Old Battery:** Unscrew any retaining screws holding the old battery in place and carefully lift it out.
6. **Install New Battery:** Place the new Futurebatt L16L2PB2 battery into the battery compartment. Ensure it aligns correctly with the screw holes and the power interface.
7. **Secure New Battery:** Fasten the new battery with the retaining screws.
8. **Connect Battery Cable:** Connect the new battery's cable to the motherboard. Ensure the connection is firm and fully seated.
9. **Reassemble Laptop:** Replace the laptop's bottom cover and secure it with screws.



Figure 3: Detailed view of the 8-pin battery connector. Ensure this matches your laptop's port.



Power Interface

The laptop and the battery fit closely, and the battery can be fixed to ensure safety and efficiency

Battery Buckle

The shape of the battery is exactly the same as the original size, and is carefully crafted in a 1:1 ratio to prevent it from falling

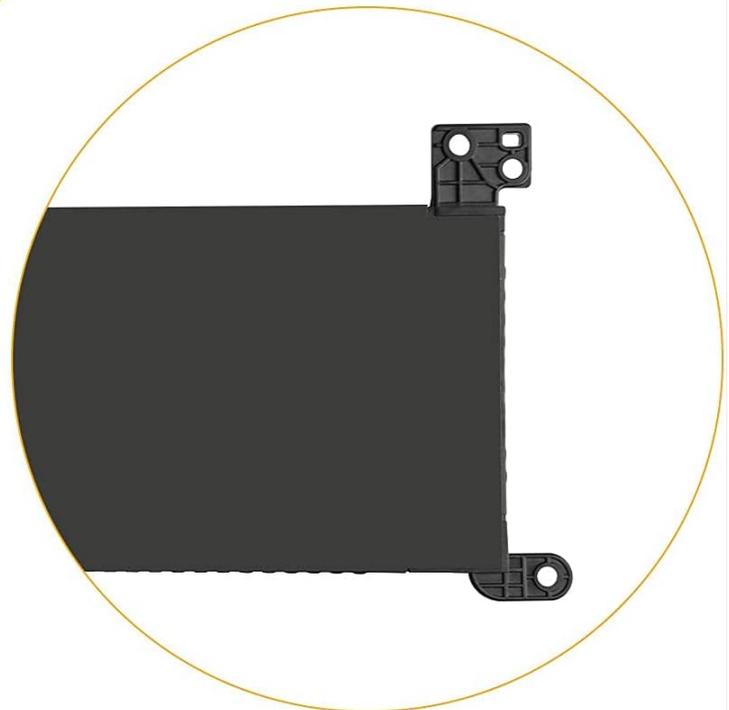


Figure 4: Power interface and battery buckle details. The battery buckle ensures a secure fit.

OPERATING INSTRUCTIONS

First Use and Calibration:

For optimal performance and to "wake up" the new battery, follow these steps:

1. After installation, fully discharge the new battery to 5% (do not let it reach 0% and shut down).
2. Then, fully charge the battery to 100% without interruption.
3. Repeat this discharge-to-5% and full charge cycle 3-4 times. This process helps calibrate the battery's charge indicator and optimize its performance.

General Usage:

- Avoid frequently discharging the battery completely to 0%.
- It is generally recommended to keep the battery charge between 20% and 80% for extended lifespan, though occasional full cycles (as described above) are beneficial for calibration.

- If storing the laptop for an extended period, ensure the battery is charged to about 50-60%.

MAINTENANCE

- **Temperature Control:** Operate your laptop in a cool, dry environment. High temperatures can degrade battery life.
- **Regular Use:** Use your laptop on battery power regularly. Avoid keeping it constantly plugged in at 100% charge for prolonged periods.
- **Software Updates:** Keep your laptop's operating system and drivers updated, as power management improvements can optimize battery usage.
- **Cleaning:** Ensure the laptop's cooling vents are clear of dust to prevent overheating, which can affect battery performance.

TROUBLESHOOTING

Battery Not Recognized After Installation:

If the new battery is not recognized by your laptop after initial installation, please:

- Reinstall the battery, ensuring the connector is fully and securely seated.
- Verify that the battery model (L16L2PB2) is indeed compatible with your specific laptop model and that the physical dimensions and connector type match your original battery. Refer to the "Compatibility" section.
- Perform a power cycle: Disconnect the AC adapter, remove the battery, press and hold the power button for 15-20 seconds, then reinsert the battery and reconnect the AC adapter.

Short Battery Life:

If the battery life is shorter than expected:

- Ensure you have completed the initial 3-4 charge/discharge cycles for calibration.
- Check your laptop's power settings. High performance modes, bright screens, and numerous background applications consume more power.
- Close unnecessary applications and reduce screen brightness.
- Verify that the battery is fully charging to 100%.

Battery Not Charging:

If the battery is not charging when connected to the AC adapter:

- Ensure the AC adapter is functioning correctly and is the correct wattage for your laptop.
- Check the charging port on your laptop for any debris or damage.
- Try updating your laptop's BIOS and battery drivers.

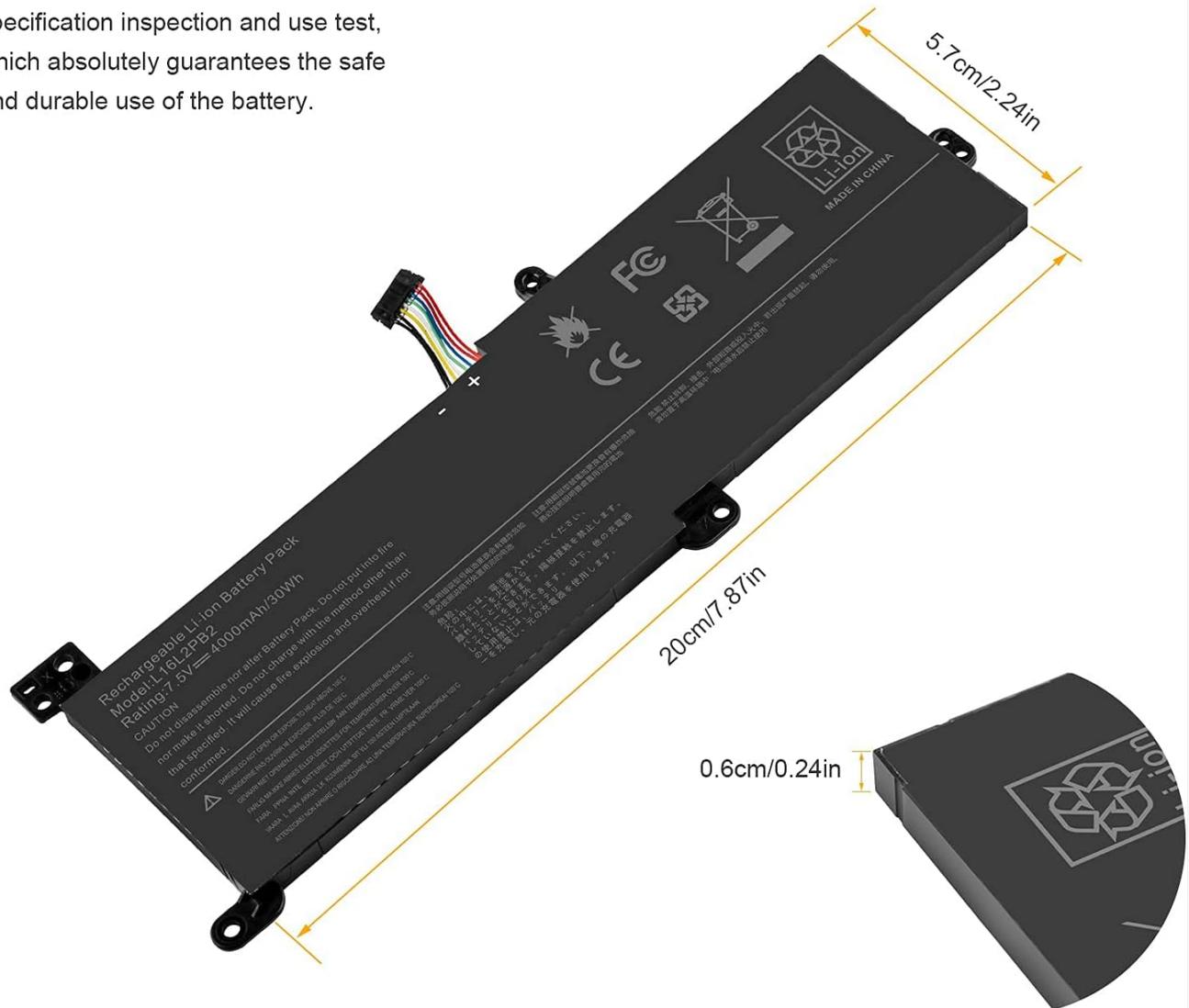
SPECIFICATIONS

Model Number	L16L2PB2
Battery Type	Li-ion (Lithium Ion)
Voltage	7.5V
Capacity	4000mAh / 30Wh
Number of Cells	2 Cells

Recharge Cycles	Up to 500
Color	Black
Item Weight	7.4 ounces (approximately 210 grams)
Package Dimensions	10.51 x 4.8 x 1.1 inches (approximately 26.7 x 12.2 x 2.8 cm)

New Class A battery

Each battery has undergone strict specification inspection and use test, which absolutely guarantees the safe and durable use of the battery.



(* Note: There are some errors in manual measurement, please refer to the actual product.)

Figure 5: Battery dimensions for physical verification.

True Capacity 2 Cell



Capacity: 4000mAh 39Wh



Discharge time: 1-2.5h



Voltage: 7.5V



Battery type: Li-Polymer



Up to 500
recharge cycles



Figure 6: Battery label with model and electrical specifications.

WARRANTY AND SUPPORT

For any questions, technical assistance, or warranty claims, please contact Futurebatt customer support. Refer to your purchase documentation for specific warranty terms and contact information.

You can typically find support contact details on the seller's page where you purchased the product or through the Futurebatt official website.