

EEMB LP653042-PCM

EEMB LP653042 3.7V 820mAh Lithium Polymer Battery User Manual

Model: LP653042-PCM

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your EEMB LP653042 3.7V 820mAh Lithium Polymer Rechargeable Battery. Please read this manual thoroughly before installation and operation to ensure proper handling and to prevent potential hazards.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in fire, electric shock, injury, or damage to the product or property.

- Do not short-circuit, disassemble, deform, heat, or place the battery near direct flame.
- Strictly prohibit piercing the cell with a sharp object such as a needle.
- Battery should be maintained every three months during long-term storage.

3. PRODUCT OVERVIEW AND FEATURES

3.1 Basic Information

- **Voltage:** 3.7V
- **Typical Capacity:** 820mAh
- **Minimum Capacity:** 770mAh
- **Weight:** Approximately 16.4g
- **Size:** 30.5 x 44 x 6.8mm (1.2" x 1.69" x 0.26") (Width x Length x Height)

3.2 Reliable Performance

The EEMB LP653042 battery is designed for reliable performance, featuring no leaking and a long cycle life. It includes a PCM (Protection Circuit Module) for enhanced safety functions:

- Overcharge Protection
- Overdischarge Protection
- Overcurrent Protection
- Short Circuit Protection

Applications

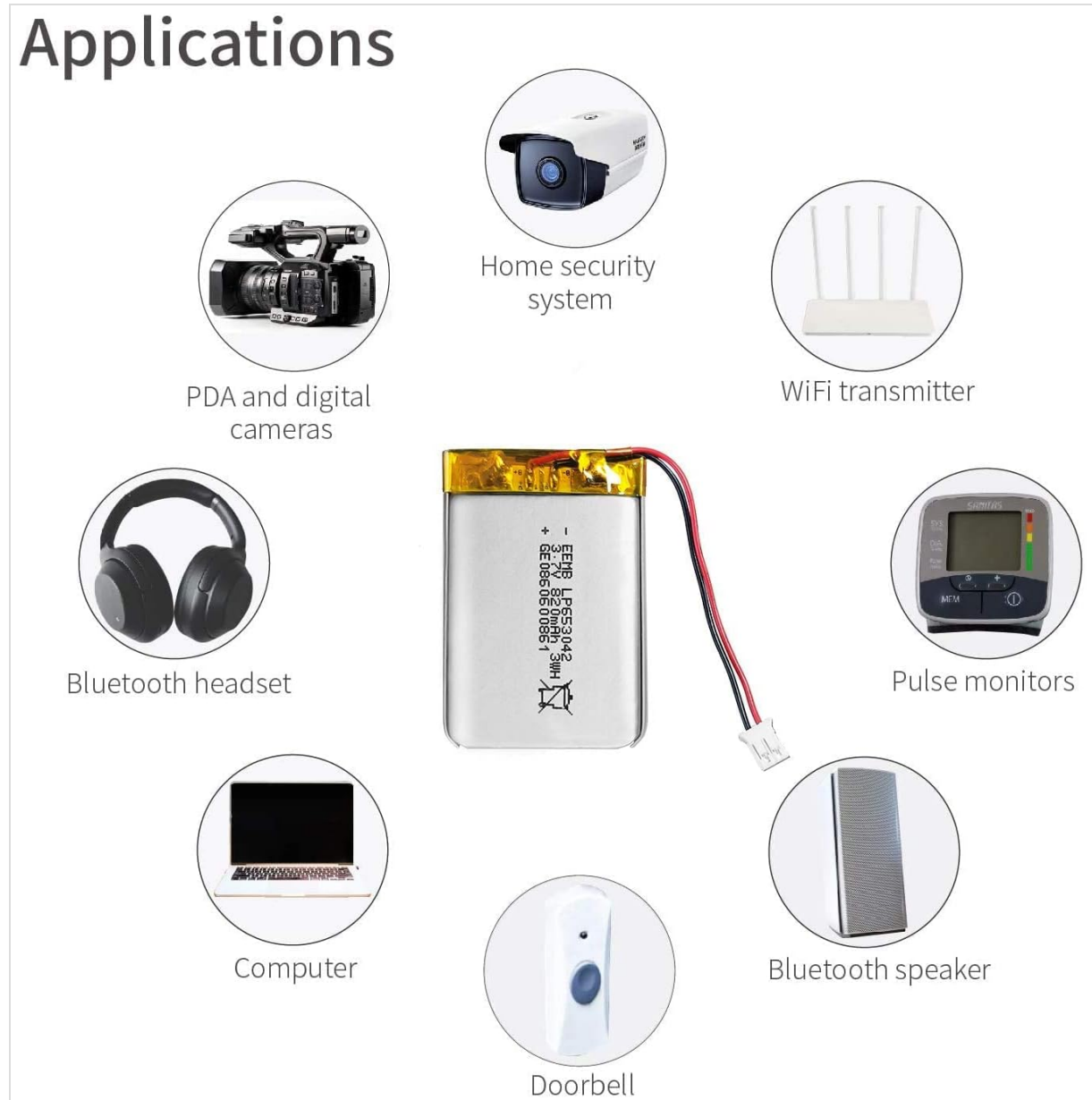


Image: Visual representation of the EEMB LP653042 battery highlighting its multiple protection features.

3.3 Certifications

This battery is UN 38.3 compliant. EEMB batteries are UL certified. For detailed UL certification information, search "MH20555" on the UL website.

4. INSTALLATION AND CONNECTION

IMPORTANT: Before purchase and installation, confirm the device's polarity matches the battery pack connector. Incorrect polarity will cause a short circuit and product failure.

ATTENTION!

Check the size, orientation and polarity of the connector before purchase.

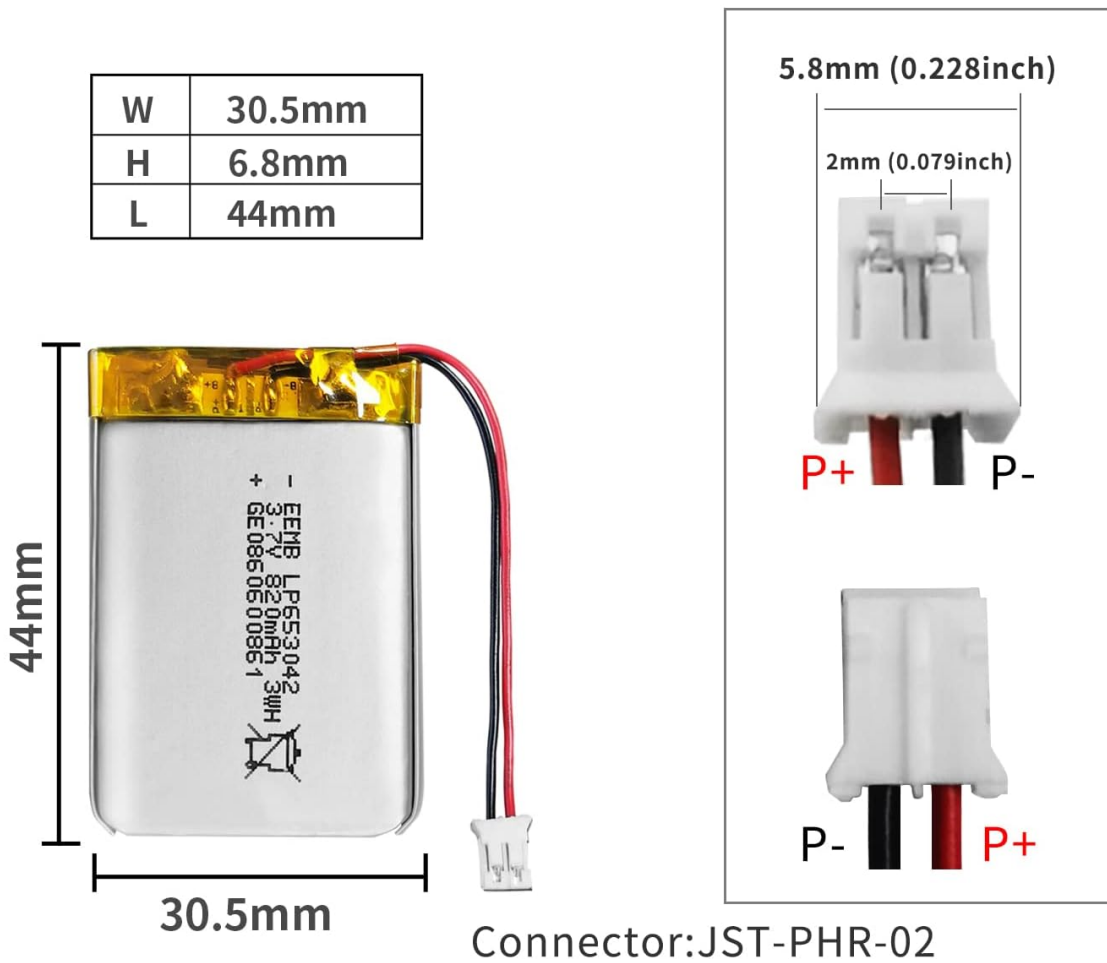


Image: Diagram showing the dimensions of the EEMB LP653042 battery and the JST-PHR-02 connector with its pinout.

4.1 Connector Polarity

- The connector's orientation may not 100% match what is on your device. Confirm the polarity of the connector and your device before connection.
- The connector's RED wire is the positive electrode ("+"). The BLACK wire is the negative electrode ("-").
- Your device's positive electrode ("+") must connect to the connector's positive electrode.
- Your device's negative electrode ("-") must connect to the connector's negative electrode.

WRONG CONNECTION MAY CAUSE PRODUCT FAILURE.

EEMB-Multiple Protection



Overcharge
Protection



Overdischarge
Protection



Short Circuit
Protection



Overvoltage
Protection



Overcurrent
Protection



Image: Visual guide demonstrating correct and incorrect polarity connections for the JST connector.

5. USAGE AND APPLICATIONS

5.1 Storage Guidelines

- Keep the cells in a 40%-60% charged state during long-period storage.
- It is recommended to charge the battery every 3 months after receipt and maintain the voltage between 3.7V-4.0V.
- Store the battery in a cool and dry place.

5.2 Recommended Applications

The EEMB LP653042 battery is suitable for a variety of devices, including but not limited to:

- Bluetooth speakers
- Dash cams
- Keyboards and mice
- Wi-Fi smart home systems

- PDAs and digital cameras
- GPS devices
- E-books
- Tracking devices
- Blood oxygen tracking equipment
- Pulse monitors
- Wireless IoT devices



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Model	LP401730	LP402535	LP653042	LP103454	LP103395	LP502030	LP603449	LP963450
Certification	UN38.3	UL1642 for cell UN38.3	UL1642 for cell UN38.3	UN38.3	UL1642 for cell UN38.3	UL1642 for cell UN38.3	UL1642 for cell UN38.3	UL1642 for cell UN38.3
Voltage	3.7V	3.7V	3.7V	3.7V	3.7V	3.7V	3.7V	3.7V
Capacity	150mAh	320mAh	850mAh	2000mAh	3700mAh	250mAh	1100mAh	1800mAh
Weight	2.8g	6g	16.4g	40g	74g	5g	22g	36g
Size (mm) L*W*H	17.5 x 31 x 4.3	25.5 x 36 x 4.3	30.5 x 43 x 6.8	34.5 x 55 x 10.3	33.5 x 97 x 10.3	20.5 x 32 x 5.3	34.5 x 50 x 6.3	34.5 x 52 x 9.9
Rechargeable	√	√	√	√	√	√	√	√

Image: Examples of devices where the EEMB LP653042 battery can be used, such as home security systems, WiFi transmitters, and Bluetooth headsets.

6. SPECIFICATIONS

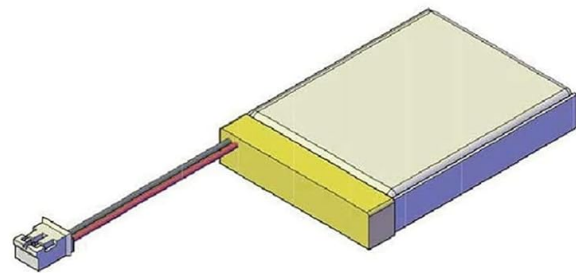
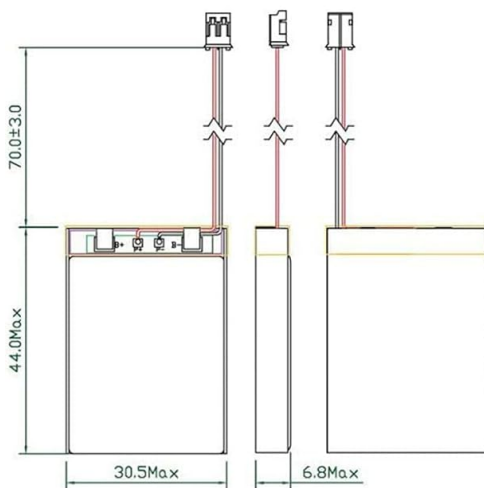
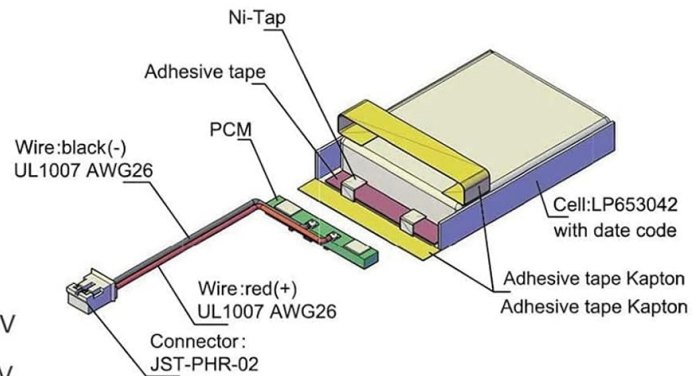
Specification	Value
Product Dimensions	1.2 x 1.73 x 0.27 inches (30.5 x 44 x 6.8mm)
Item Weight	0.563 ounces (16.4g)
Item Model Number	LP653042-PCM
Battery Cell Composition	Lithium Polymer

Battery Capacity	820 Milliamp Hours (mAh)
Nominal Voltage	3.7V
Manufacturer	EEMB Co.,Ltd

LP653042

UN38.3

- Min Capacity: 770 mAh
- Typical Capacity: 820mAh
- Nominal Voltage: 3.7 V
- Weight: 16.4 g
- Maximum Charge Current: 770 mA
- Limited Voltage: 4.200 ± 0.020 V
- Cut-off Voltage: 2.750 ± 0.005 V
- Overcharge Detection Voltage: 4.28 ± 0.05 V
- Overdischarge Detection Voltage: 3.0 ± 0.1 V
- Protection circuit included.



Model#: A10013-LP653042-PCM-LD-

Image: Detailed technical diagram of the LP653042 battery, including minimum capacity, nominal voltage, weight, maximum charge current, limited voltage, cut-off voltage, and protection circuit details.

7. TROUBLESHOOTING

If you encounter issues with your EEMB LP653042 battery, consider the following common troubleshooting steps:

- **No Power/Device Not Turning On:** Verify that the battery is correctly connected to your device, paying close attention to polarity. Ensure the battery is charged.
- **Short Battery Life:** Check if the battery has been stored properly (40-60% charge, cool, dry place) and charged regularly. Ensure the device's power consumption is within the battery's capacity.
- **Overheating:** Immediately disconnect the battery if it becomes excessively hot. Overheating can indicate a short circuit or internal damage. Do not use the battery if it shows signs of swelling or damage.
- **Charging Issues:** Ensure your charger is compatible with 3.7V Lithium Polymer batteries. Check for any damage to the charging cable or port.

For persistent issues or concerns, please contact EEMB customer support.

8. PRODUCT VIDEO

Watch this video for an overview of EEMB Lithium Polymer battery manufacturing processes and features.

Your browser does not support the video tag.

Video: An informational video showcasing the production and features of EEMB Lithium Polymer batteries.

9. WARRANTY AND SUPPORT

EEMB provides quality service for its products. If you have any questions or concerns regarding your EEMB LP653042 battery, please contact us directly via Amazon message for assistance.