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KBT KEEP BETTER TECH 702250

KBT 3.7V 800mAh Li-Polymer Battery (Model 702250) Instruction Manual

Model: 702250 | Brand: KBT KEEP BETTER TECH

Introduction

This manual provides essential information for the safe and effective use of your KBT 3.7V 800mAh Li-Polymer Battery, model 702250. This rechargeable lithium-ion battery comes equipped with a JST connector for convenient integration into various electronic devices.

The KBT 702250 battery is designed for a wide range of applications, including digital cameras, tablets, home monitors, GPS devices, toys, network boxes, USB fans, testers, air purifiers, controllers, Bluetooth speakers, baby infant monitors, keyboards, and mice.



Image: KBT 3.7V 800mAh Li-Polymer Battery (Model 702250) with JST connector.

Safety Information

- Do not disassemble, crush, puncture, or short-circuit the battery.
- Do not expose the battery to high temperatures (above 60°C / 140°F) or direct sunlight.
- Do not immerse the battery in water or other liquids.
- Use only chargers specifically designed for lithium polymer batteries.
- Keep out of reach of children.
- If the battery shows signs of swelling, leakage, or damage, discontinue use immediately and dispose of it properly.

Setup and Installation

Before installation, ensure the battery dimensions and connector type are compatible with your device. The KBT 702250 battery features a 2.54-JST connector.

Purchase Notes.

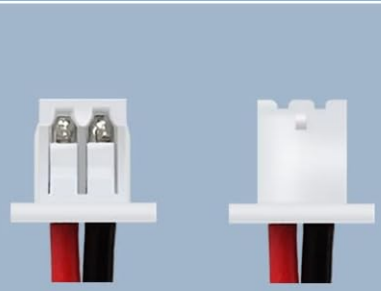
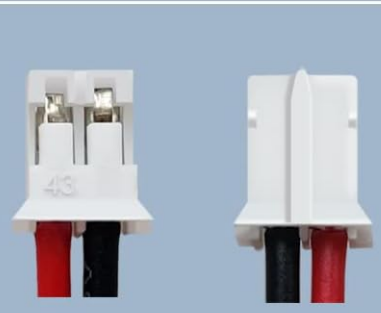
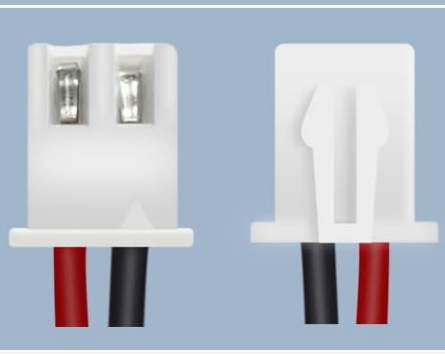
Picture	Part No.	Pitchs Between Poles
	GH-2PIN 1.25	1.25mm
	PH-2PIN 2.0	2.0mm
	XH-2PIN 2.54	2.54mm

Image: Detailed dimensions (L: 50.0mm, W: 22.0mm, H: 7.0mm) and 2.54-JST connector pinout for the KBT 702250 battery.

Connector Compatibility: It is crucial to verify the pitch between poles of your device's connector. The KBT 702250 battery comes with a 2.54mm pitch JST connector. Other common JST connector types include GH-2PIN 1.25mm and PH-2PIN 2.0mm. Ensure your device requires a 2.54mm pitch connector to avoid compatibility issues.

Product Size

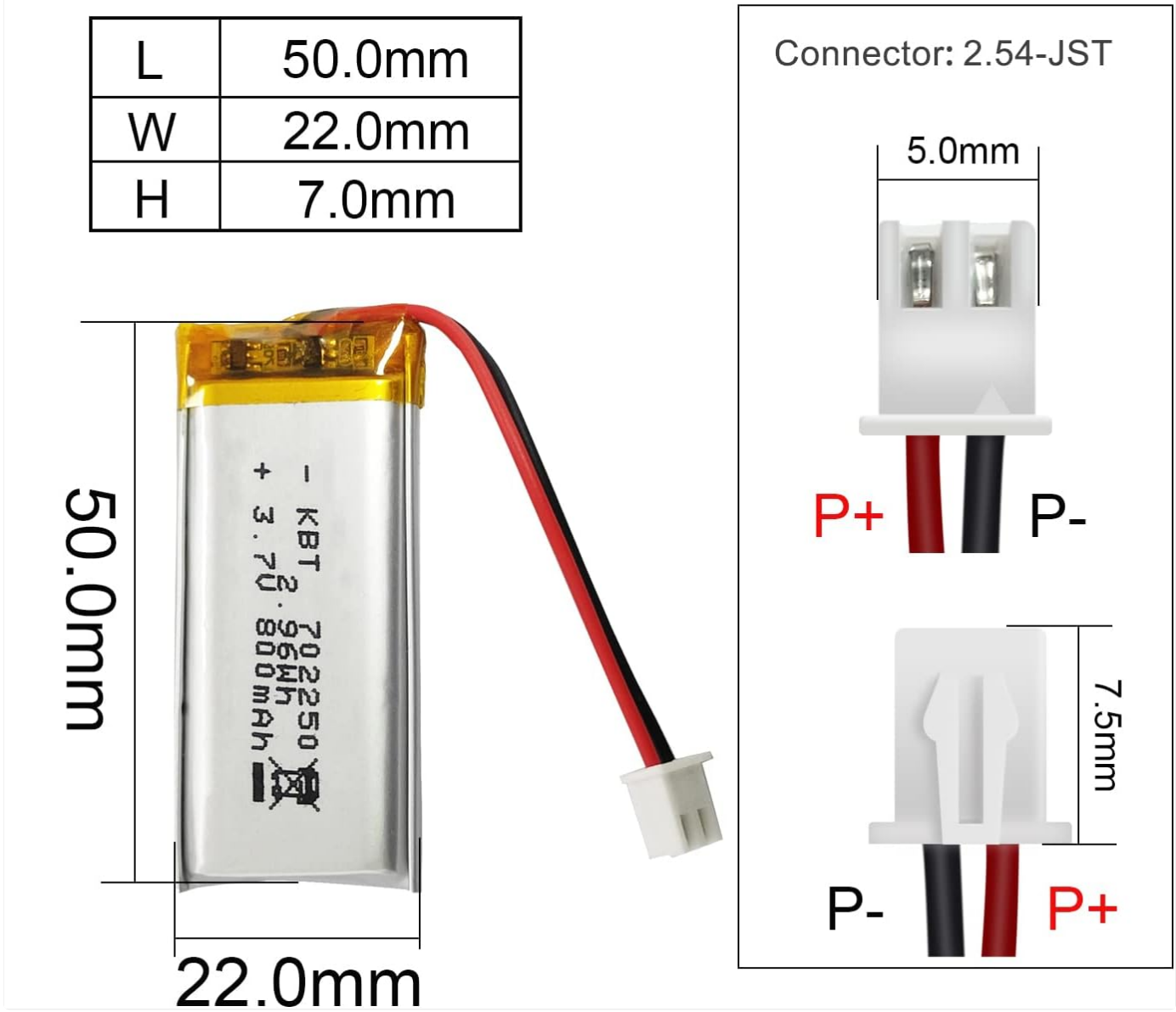


Image: Comparison of common JST connector types (GH-2PIN 1.25, PH-2PIN 2.0, XH-2PIN 2.54) and their respective pin pitches.

1. **Verify Connector:** Confirm that the JST connector on the KBT 702250 battery matches the connector on your device.
2. **Connect Battery:** Carefully align the battery's JST connector with the corresponding port on your device and push firmly until it clicks into place. Do not force the connection.
3. **Secure Battery:** Place the battery securely within your device's battery compartment, ensuring it does not move freely or become pinched.

Operating Instructions

The KBT 702250 Li-Polymer battery is designed for reliable performance in compatible devices.

- **Initial Charge:** For optimal performance, fully charge the battery before its first use.
- **Charging:** Connect the battery to a compatible lithium polymer battery charger. The battery features built-in overcharge, over-discharge voltage, and short-circuit protection for safe charging and operation.
- **Discharging:** Use the battery within the recommended operating temperature range. Avoid completely draining the battery

frequently, as this can reduce its lifespan.



Image: Illustration of the multiple protection features integrated into the KBT battery, including overcharge, over-discharge voltage, and short-circuit protection.

Maintenance and Storage

Proper maintenance ensures the longevity and performance of your KBT Li-Polymer battery.

- **Charging Cycles:** The battery is designed for approximately 800 charge and discharge cycles, providing 1-2 years of normal use.
- **Long-Term Storage:** If the battery will not be used for an extended period, discharge it to approximately 50% capacity and store it in a cool, dry place. Fully charge and discharge the battery once a month to maintain its health.
- **Temperature:** Store the battery at room temperature. Avoid extreme hot or cold environments.
- **Cleaning:** Keep the battery terminals clean and free from dust or debris.

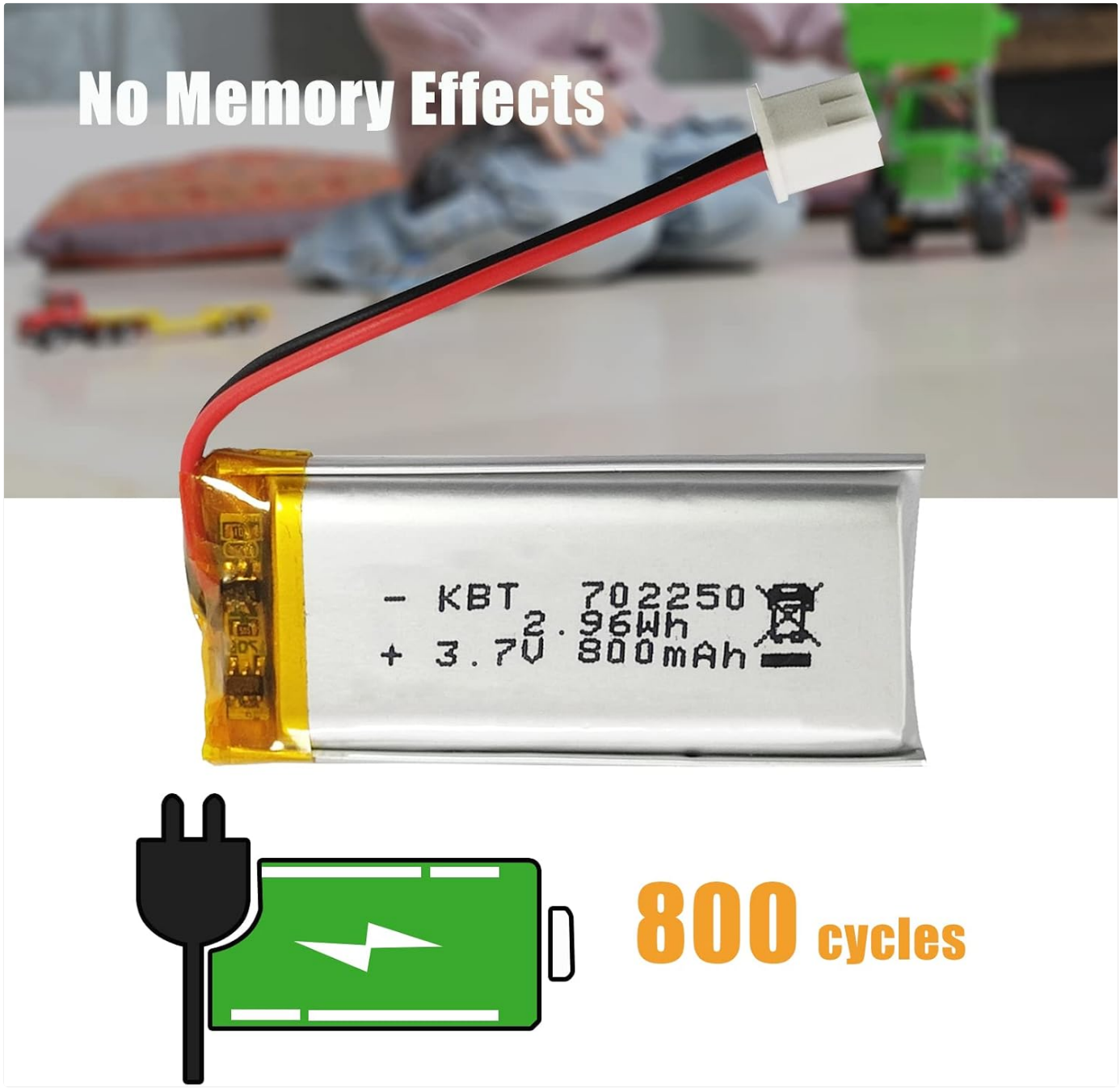


Image: The KBT battery features no memory effects and is rated for approximately 800 charge cycles.

Troubleshooting

Problem	Possible Cause	Solution
Battery does not fit or connect.	Incorrect battery dimensions or incompatible JST connector type/pitch.	Verify the dimensions (50x22x7mm) and ensure your device requires a 2.54mm pitch JST connector. Refer to the "Setup and Installation" section.
Battery does not charge.	Faulty charger, improper connection, or damaged battery.	Ensure the charger is compatible and functioning. Re-seat the connector. If the battery is swollen or damaged, discontinue use.
Short operating time after full charge.	Battery degradation, high power consumption by device, or improper charging/storage.	Ensure proper charging and storage practices. If the battery is old, it may be reaching the end of its lifespan (approx. 800 cycles).

Problem	Possible Cause	Solution
Battery becomes hot during use or charging.	Overload, short circuit, or internal battery issue.	Immediately disconnect the battery. Do not use if it becomes excessively hot. This indicates a potential safety hazard.

Specifications

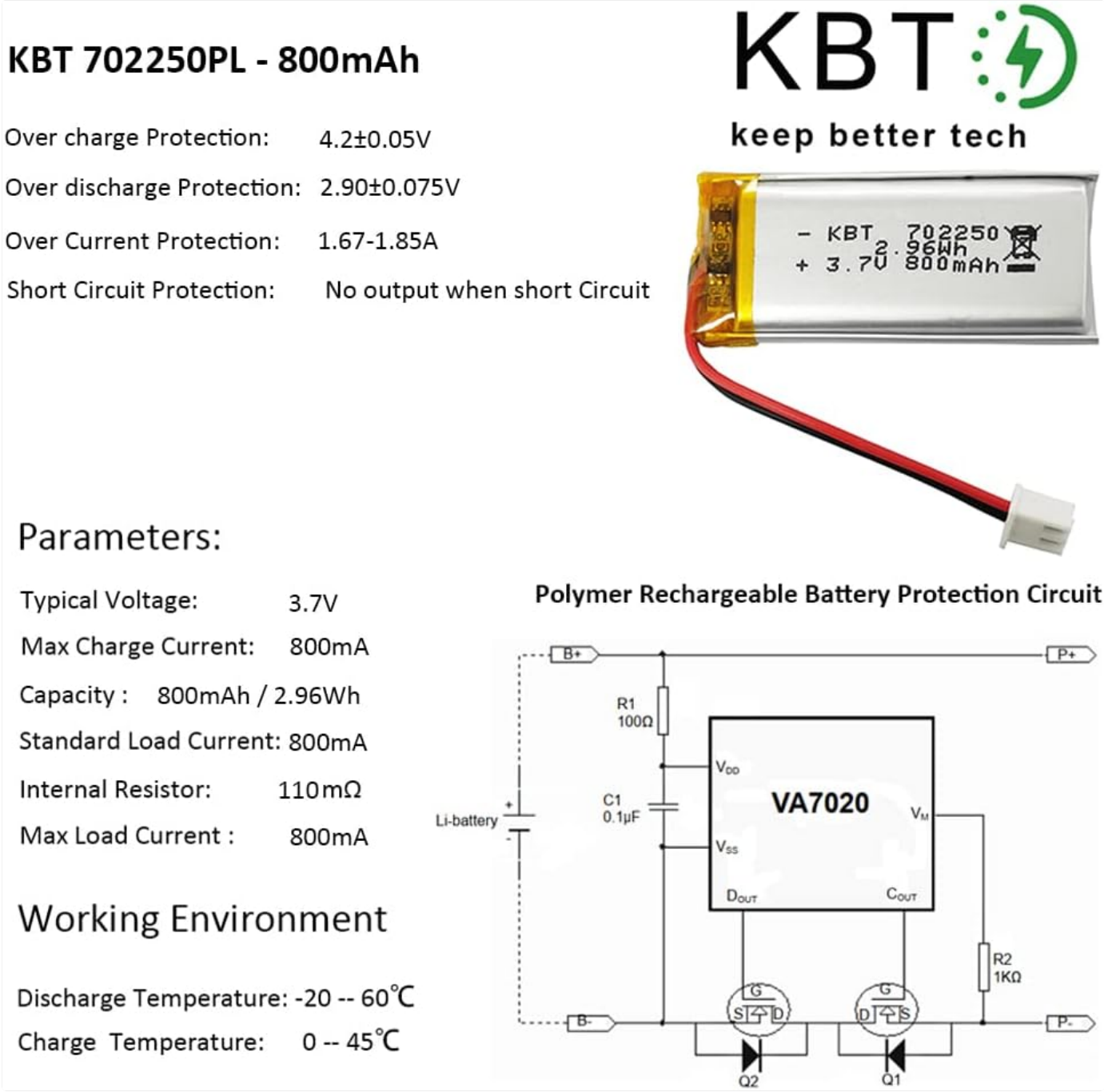


Image: Technical parameters and a diagram of the Polymer Rechargeable Battery Protection Circuit for the KBT 702250.

Model Number: 702250

Battery Type: Lithium Polymer (Li-Polymer)

Voltage: 3.7V

Capacity: 800mAh / 2.96Wh

Connector Type: JST (2.54mm pitch)

Dimensions (L x W x H): 50.0mm x 22.0mm x 7.0mm (approx. 1.97 x 0.87 x 0.28 inches)

Weight: 12 Grams

Reusability: Rechargeable

Charge Cycles: Approximately 800 cycles

Overcharge Protection: 4.2V ± 0.05V

Over-discharge Protection: 2.90V ± 0.075V

Over Current Protection: 1.67-1.85A

Short Circuit Protection: No output when short circuit

Discharge Temperature: -20°C to 60°C (-4°F to 140°F)

Charge Temperature: 0°C to 45°C (32°F to 113°F)

Warranty

KBT KEEP BETTER TECH provides a **lifetime warranty** for this product. This warranty covers issues caused by the product itself. If you encounter any problems with your KBT 702250 battery, please contact customer support for a replacement or refund.

Customer Support

For technical assistance, warranty claims, or any questions regarding your KBT 3.7V 800mAh Li-Polymer Battery, please contact KBT KEEP BETTER TECH customer service. You can typically find contact information on the product packaging or through the retailer where the product was purchased.
For more information, visit the official KBT KEEP BETTER TECH store:KBT KEEP BETTER TECH Store

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