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**KBT KEEP BETTER TECH 702250**

# KBT 702250 3.7V 800mAh Li-Polymer Battery Instruction Manual

## 1. Introduction

This manual provides essential information for the safe and effective use of your KBT 702250 3.7V 800mAh Li-Polymer Battery. This rechargeable lithium-ion battery is designed for various electronic devices requiring a 3.7V power source and features PH2.54, PH1.25, or PH2.0 JST connectors for versatile replacement applications.

Each battery undergoes rigorous safety examinations, including UN38.3 test standards, to ensure reliability and minimize risks during production, shipping, and usage.

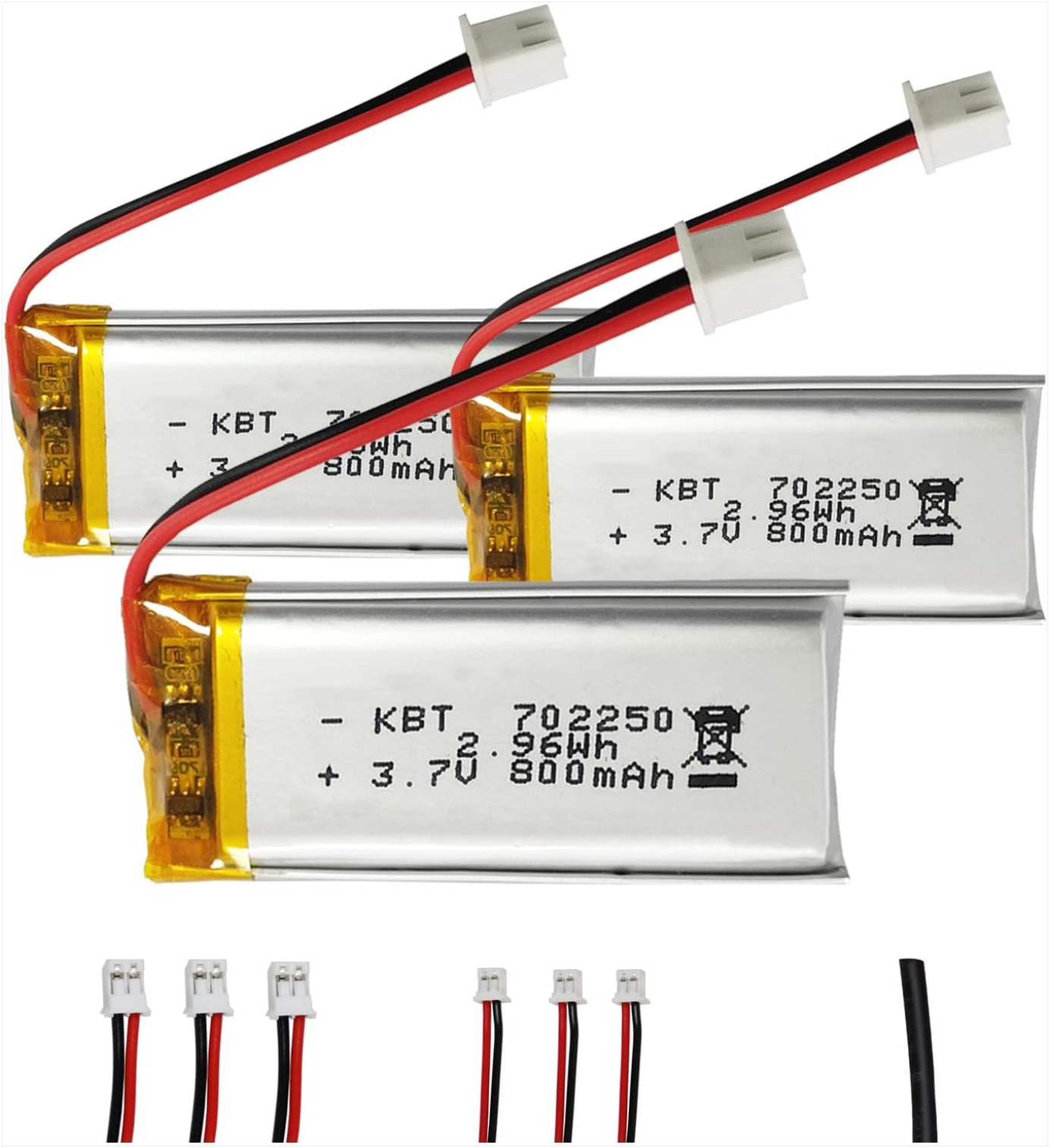



Image 1: KBT 702250 3.7V 800mAh Li-Polymer Battery with JST connector.

## 2. Safety Information

Lithium polymer batteries are powerful and require careful handling. Adhere to the following safety guidelines:

- **Do not** puncture, disassemble, or modify the battery.
- **Do not** expose the battery to extreme temperatures (above 60°C or below -20°C) or direct sunlight.
- **Do not** immerse the battery in water or other liquids.
- **Do not** short-circuit the battery terminals.
- Use only chargers specifically designed for lithium polymer batteries.
- Keep batteries away from children and pets.
- Dispose of batteries according to local regulations.

The battery features built-in multiple protection mechanisms:

- **Overcharge Protection:** Prevents the battery from being charged beyond its safe voltage limit.
- **Over-discharge Voltage Protection:** Prevents the battery from being discharged below its safe voltage limit.
- **Short-circuit Protection:** Automatically cuts off power in case of a short circuit.




Image 2: Multiple protection features for safe battery operation.

## 3. Installation and Setup

This battery is designed as a replacement for devices using PH2.54, PH1.25, or PH2.0 JST connectors. Follow these steps for proper installation:

1. **Prepare the Device:** Ensure the device is powered off and disconnected from any power source. Carefully open the device to access the battery compartment.
2. **Remove Original Battery:** Disconnect and remove the old battery. Note the polarity of the wires (red for positive, black for negative).

3. **Prepare the New Battery:** The KBT 702250 battery comes with a PH2.54 2-pin JST connector. If your device requires a PH1.25 or PH2.0 JST connector, you will need to replace the connector.
4. **Connector Replacement (if necessary):**
    - **Cut off the existing connector** from the KBT battery, leaving sufficient wire length.
    - **Select the correct JST connector** (PH1.25 or PH2.0) for your device. Cut off the heat shrinkable tube from the new connector if it has one.
    - **Connect the wires:** Carefully strip a small portion of insulation from the ends of the battery wires and the new connector wires. Ensure that the red wire from the battery connects to the positive (P+) wire of the new connector, and the black wire from the battery connects to the negative (P-) wire of the new connector. Solder the connections for a secure and reliable bond.
    - **Insulate the connections:** Use heat-shrink tubing to insulate the soldered connections individually, then apply a larger piece of heat-shrink tubing over both connections for added protection. Heat the tubing gently until it shrinks tightly around the wires.
5. **Install the Battery:** Connect the new battery to your device's battery port, ensuring the connector is fully seated and the polarity is correct. Secure the battery within the compartment if applicable.
6. **Reassemble Device:** Carefully close and reassemble your device.

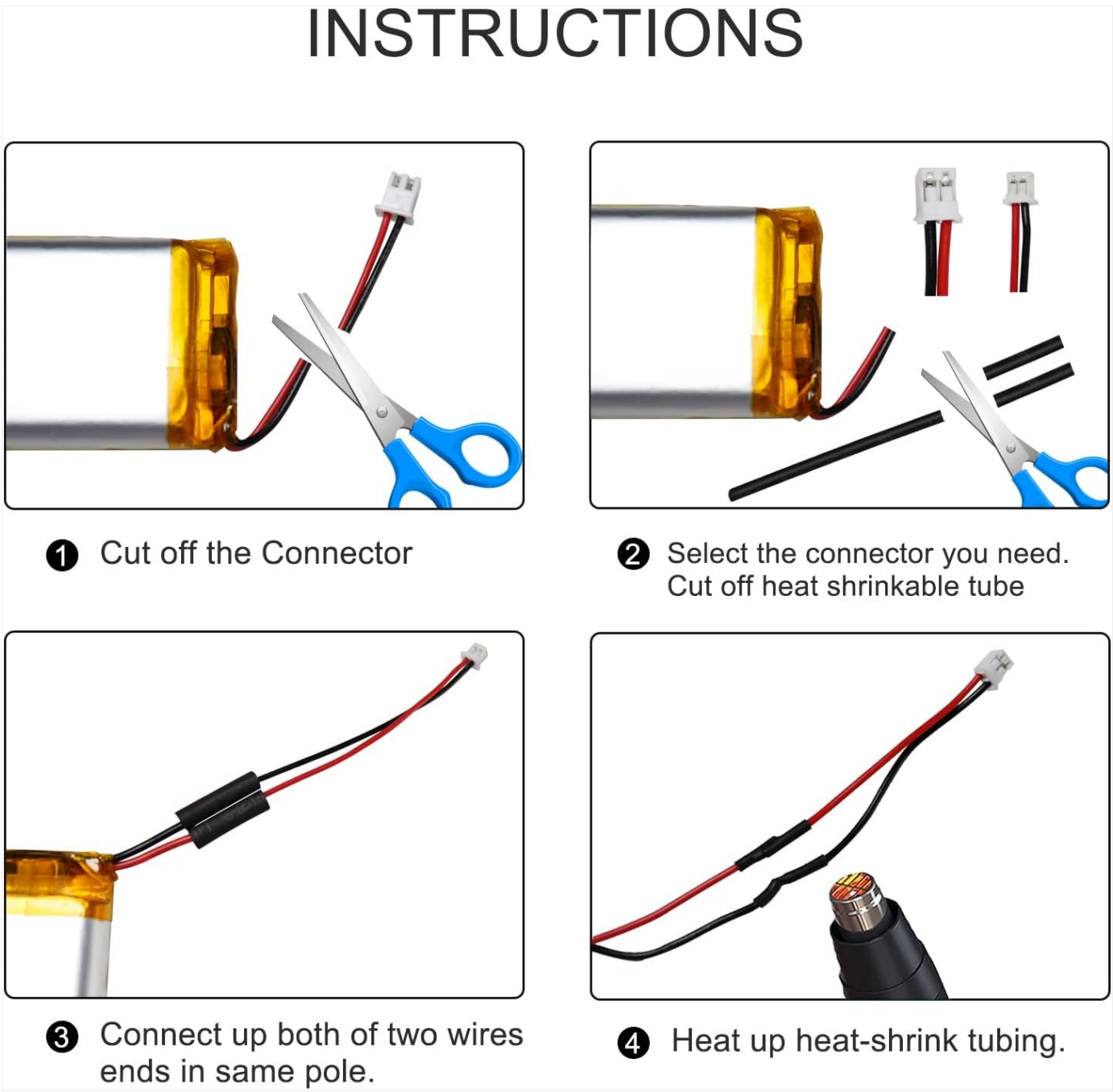



Image 3: Visual instructions for replacing the battery connector.

## 4. Operating Instructions

Once installed, the KBT 702250 battery operates like any standard rechargeable battery. Charge the battery fully before its first use.

- **Charging:** Connect your device (with the installed battery) to its compatible charger. The charging indicator on your device will typically show when charging is in progress and when it is complete.
- **Discharging:** Use your device as normal. The battery will provide power until its charge is depleted.
- **Cycle Life:** The battery is designed for approximately 800 charge and discharge cycles, offering a typical lifespan of 1-2 years under normal usage conditions.

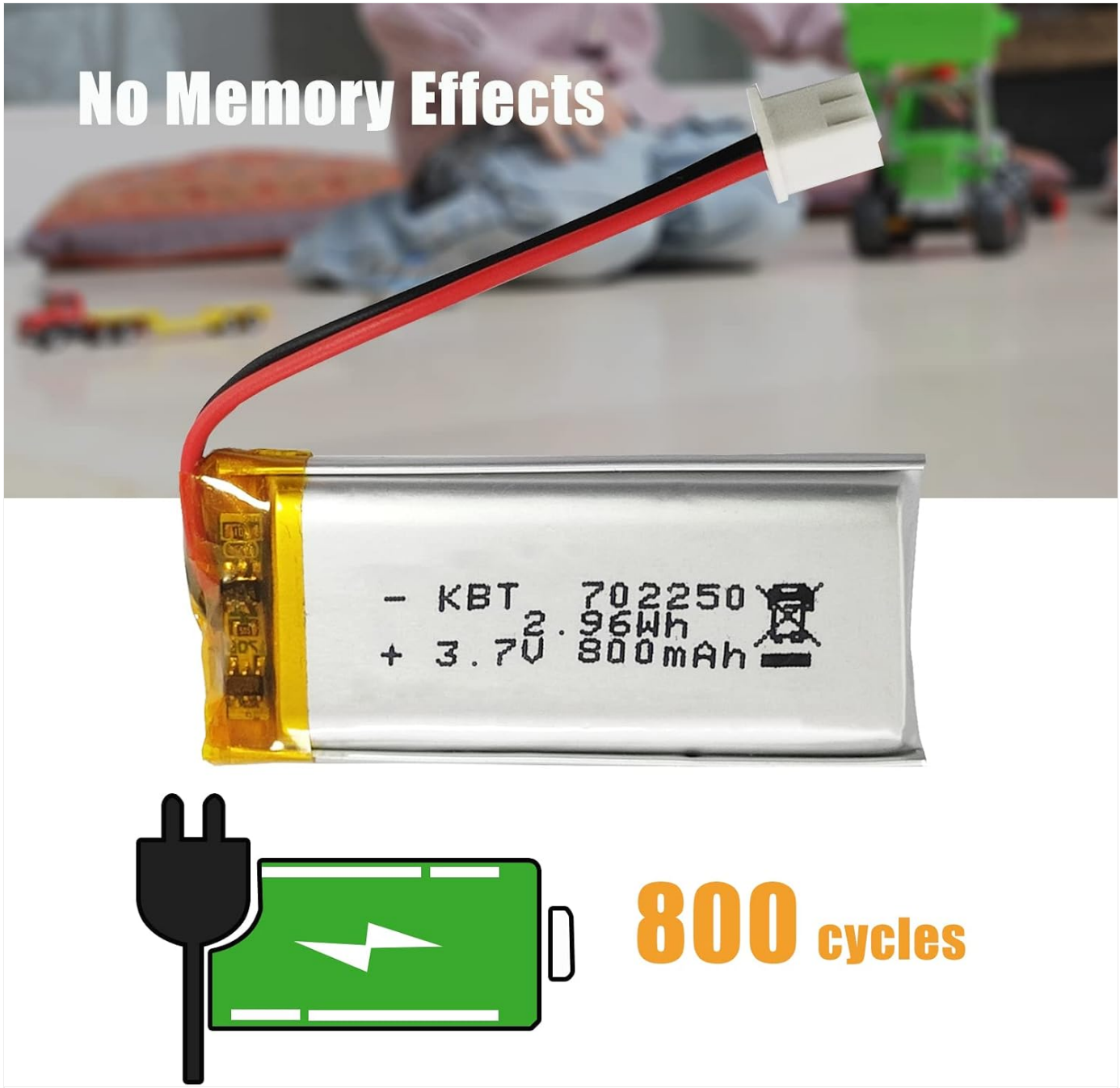



Image 4: The battery offers approximately 800 charge cycles without memory effects.

## 5. Maintenance

Proper maintenance extends the life and performance of your battery:

- **Regular Charging:** For optimal performance, avoid completely draining the battery frequently. Recharge it when the device indicates low power.
- **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:** Avoid storing or operating the battery in extreme hot or cold environments.
- **Cleaning:** Keep the battery and its connectors clean and free from dust or debris.

## 6. Troubleshooting

If you encounter issues with your KBT 702250 battery, consider the following:

- **Battery Not Charging:**

- Ensure the charger is correctly connected to the device and the power outlet.
- Verify that the charger is compatible with your device and lithium polymer batteries.
- Check for any visible damage to the battery, wires, or connectors.

- **Short Operating Time:**
  - Confirm the battery is fully charged.
  - Consider the power consumption of your device; some applications drain batteries faster.
  - If the battery is old, its capacity may have naturally degraded over time.
- **Incorrect Connector:**
  - Ensure you have selected and installed the correct JST connector type (PH2.54, PH1.25, or PH2.0) for your specific device.
  - Double-check wiring polarity if you performed a connector replacement.
- **Battery Swelling or Overheating:** Immediately discontinue use, disconnect the battery, and dispose of it safely according to local regulations. Do not attempt to charge or use a swollen or excessively hot battery.

## 7. Specifications

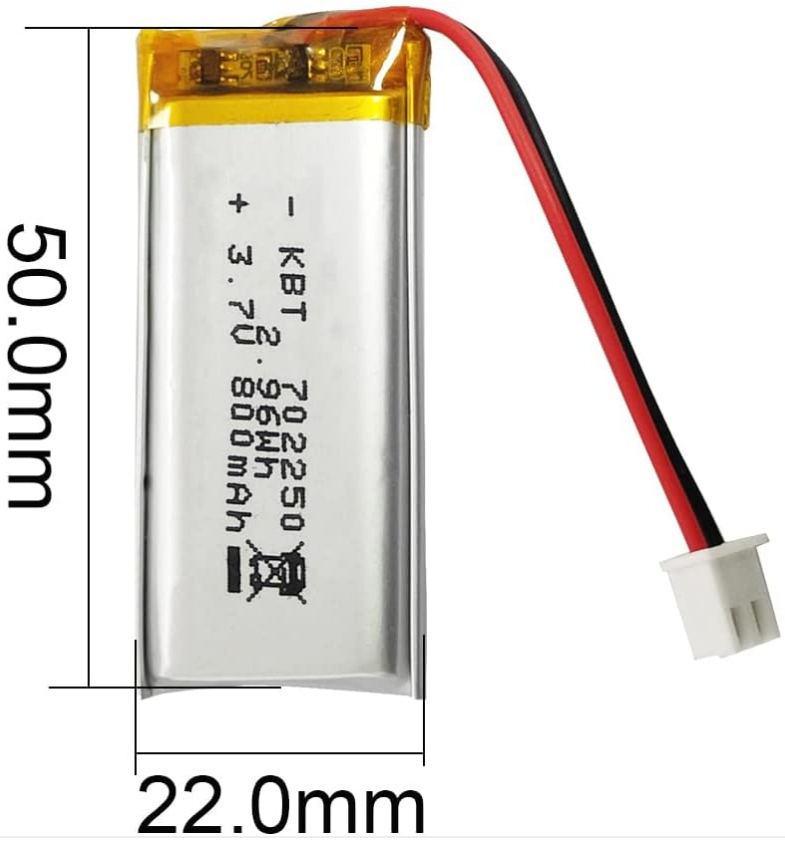
Detailed technical specifications for the KBT 702250 Li-Polymer Battery:

| Feature | Specification |
| --- | --- |
| Model Number | 702250 |
| Battery Cell Composition | Lithium Polymer |
| Typical Voltage | 3.7V |
| Capacity | 800mAh / 2.96Wh |
| Max Charge Current | 800mA |
| Standard Load Current | 800mA |
| Max Load Current | 800mA |
| Internal Resistor | 110mΩ |
| Overcharge Protection | 4.2 ± 0.05V |
| Over-discharge Protection | 2.90 ± 0.075V |

| Feature | Specification |
| --- | --- |
| Over Current Protection | 1.67 - 1.85A |
| Short Circuit Protection | No output when short circuit |
| Charge Temperature | 0°C to 45°C |
| Discharge Temperature | -20°C to 60°C |
| Dimensions (L x W x H) | 50.0mm x 22.0mm x 7.0mm |
| Weight | Approximately 12g (for a single battery) |
| Connector Type | PH2.54 JST (default), compatible with PH1.25/PH2.0 JST via replacement |
| Reusability | Rechargeable |
| Recommended Uses | Digital cameras, tablets, home monitors, GPS devices, toys, network boxes, USB fans, testers, air purifiers, controllers, Bluetooth speakers, baby infant monitors, keyboards, mice, etc. |

# Product Size

| | |
|---|---|
| L | 50.0mm |
| W | 22.0mm |
| H | 7.0mm |



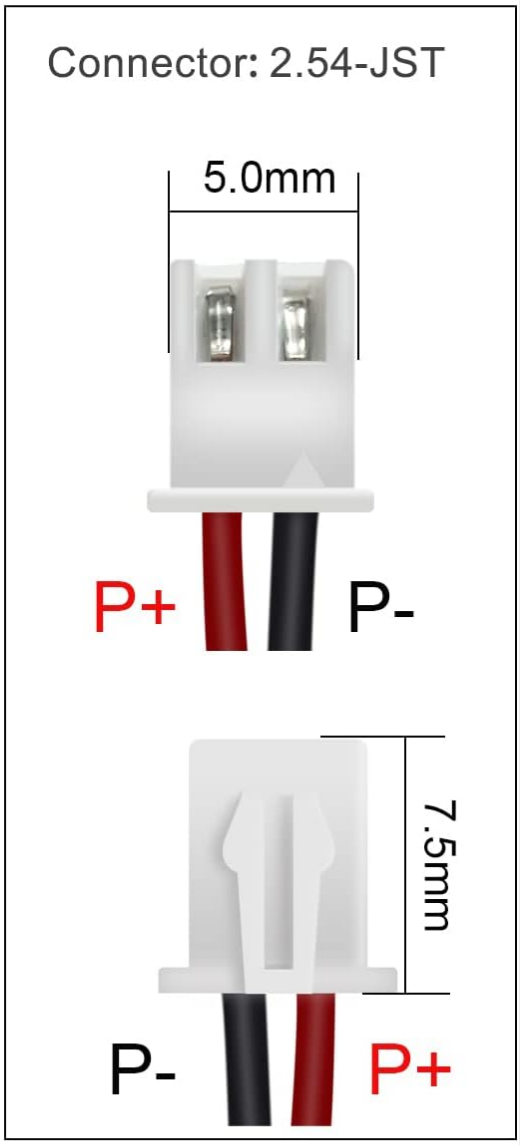




Image 5: Product dimensions and connector details.

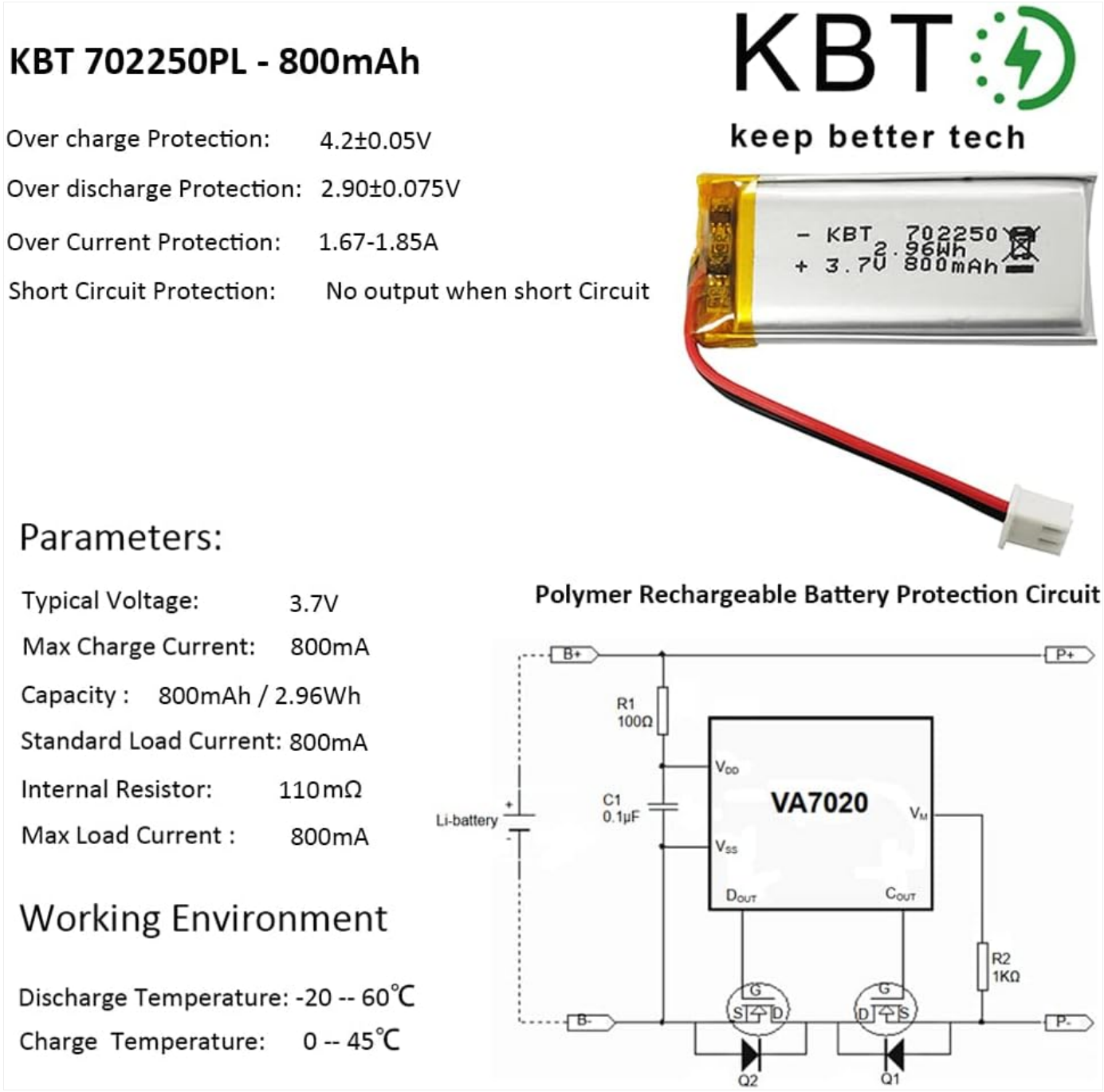



Image 6: Detailed electrical parameters and protection circuit diagram.

## 8. Warranty and Support

KBT KEEP BETTER TECH provides a lifetime warranty for this product. We guarantee the quality of every battery. If you experience any issues with the product that are caused by the product itself, please contact us for a replacement or refund at any time.

For support or warranty claims, please contact KBT KEEP BETTER TECH customer service through the retailer's platform or visit our official brand store for contact information.

**Online Support:** KBT KEEP BETTER TECH Store on Amazon

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