

SimpTronic Tech Bat-Safe Mini

SimpTronic Tech Bat-Safe Mini Battery Charging Safe Box Instruction Manual

Model: Bat-Safe Mini

1. INTRODUCTION

The SimpTronic Tech Bat-Safe Mini is a compact and robust safety box designed for charging and storing Lithium Polymer (LiPo) batteries. Constructed from durable metal, this safe box provides an enhanced layer of protection against potential battery incidents, such as thermal runaway or fire, ensuring peace of mind for users of RC, drone, and FPV equipment.

2. IMPORTANT SAFETY INFORMATION

Lithium Polymer batteries can pose fire risks if not handled correctly. Adhere to the following safety guidelines when using the Bat-Safe Mini:

- **Never leave charging batteries unattended.** Always monitor batteries during the charging process.
- Always ensure the battery is placed on a **non-flammable surface**, even when inside the Bat-Safe Mini.
- Ensure the lid is **always latched** when storing or charging batteries.
- The Bat-Safe Mini features **venting holes** on the lid. These holes must **NEVER be covered** to allow for proper smoke and gas expulsion in the event of a thermal incident.
- The Bat-Safe Mini is intended to **reduce the chances of damage** in the event of a LiPo fire. It is not a guarantee against all potential hazards.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- Inspect batteries for damage before each use. Do not charge or use damaged batteries.

3. PRODUCT OVERVIEW

The Bat-Safe Mini is a robust metal enclosure designed for the safe management of LiPo batteries. Its key features include:

- **Durable Metal Construction:** Provides a strong, fire-resistant barrier.
- **Vented Lid:** Equipped with numerous holes to safely release smoke and pressure during a battery incident.
- **Secure Latch:** Ensures the lid remains closed during storage and charging.
- **Cable Pass-Through:** A dedicated port allows charging cables to exit the box while the lid remains securely closed.



Figure 1: Bat-Safe Mini Battery Charging Safe Box (Closed View)

This image shows the Bat-Safe Mini in its closed state, highlighting the vented lid with the bat-shaped design and the secure latch mechanism. The "CAUTION - do not cover" warning is visible, emphasizing the importance of unobstructed ventilation.

4. SETUP

The Bat-Safe Mini requires minimal setup. Before first use, ensure the box is clean and free of any debris.

1. **Unpack:** Remove the Bat-Safe Mini from its packaging.
2. **Inspect:** Check the box for any signs of damage from shipping. Do not use if damaged.
3. **Placement:** Position the Bat-Safe Mini on a stable, non-flammable surface, away from combustible materials. Ensure adequate clearance around the venting holes on the lid.



Figure 2: Bat-Safe Mini Battery Charging Safe Box (Open View)

This image displays the Bat-Safe Mini with its lid open, revealing the empty interior and the perforated inner lining of the lid, designed for smoke filtration and pressure release.

5. OPERATING INSTRUCTIONS

5.1. Storing Batteries

1. Ensure batteries are at a safe storage voltage before placing them in the box.
2. Place batteries inside the Bat-Safe Mini, ensuring they are not touching each other.
3. Close the lid and secure the latch.

5.2. Charging Batteries

1. Place the battery to be charged inside the Bat-Safe Mini.
2. Route the charging cables through the designated cable pass-through port on the side of the box.
3. Connect the cables to your charger.
4. Close the lid and secure the latch, ensuring the cables are not pinched.
5. Begin charging, always monitoring the process.

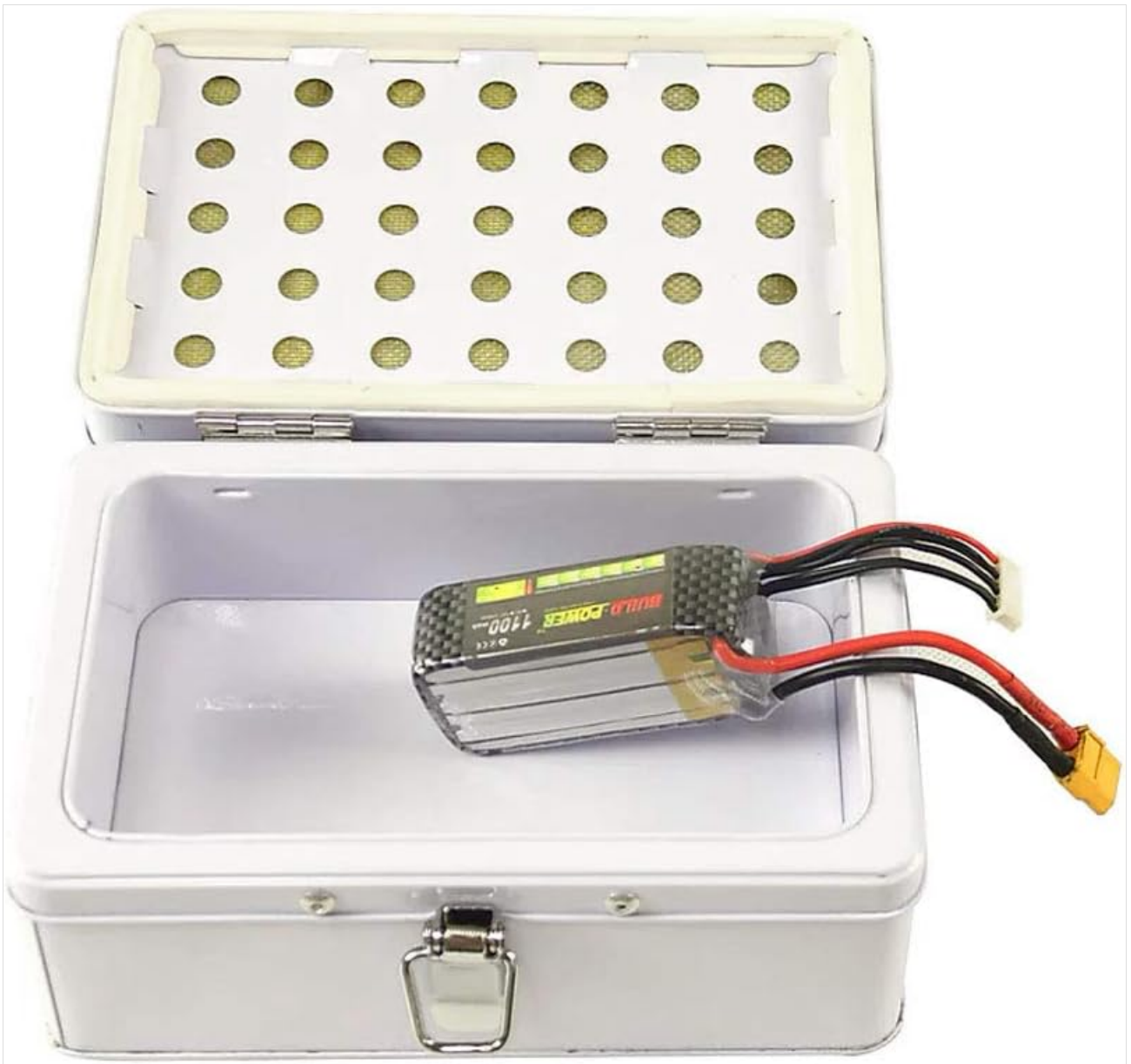


Figure 3: Battery Placement Inside Bat-Safe Mini

This image shows a LiPo battery placed inside the open Bat-Safe Mini, demonstrating how batteries are positioned within the protective enclosure.



Figure 4: Charging Cables Routed Through Port

This image illustrates the Bat-Safe Mini with its lid closed and charging cables extending from the dedicated side port, allowing for safe charging while the box is sealed.

6. MAINTENANCE

- **Cleaning:** Wipe the exterior and interior with a dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the lid, latch, and cable pass-through for any signs of wear or damage. Ensure the venting holes are clear and unobstructed.
- **Storage:** When not in use, store the Bat-Safe Mini in a dry place.

7. TROUBLESHOOTING

If you encounter any issues with your Bat-Safe Mini, refer to the following:

- **Lid not closing securely:** Check for any obstructions around the edges of the box or the latch mechanism. Ensure no cables are improperly routed.
- **Smoke/odor detected during charging:** Immediately disconnect the battery from the charger. Do not open the box until the situation has stabilized and the battery has cooled. Move the box to a safe, outdoor location if possible.
- **Damage to the box:** If the Bat-Safe Mini shows significant damage (e.g., large dents, cracks, compromised latch), it may no longer provide adequate protection. Consider replacing the unit.

8. SPECIFICATIONS

Feature	Detail
Model	Bat-Safe Mini
Brand	SimpTronic Tech
Material	Metal
Outer Dimensions (L x W x H)	7.6 x 5 x 4.5 inches (195 x 128 x 115 mm)
Charging Space (L x W x H)	6.5 x 3.9 x 1.9 inches (165 x 100 x 50 mm)
Item Weight	1.6 lbs (0.7 kg)
Color	White
Recommended Use	RC, Drone, FPV Battery Charging and Storage

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your SimpTronic Tech Bat-Safe Mini, please refer to the manufacturer's official website or contact their customer service directly. Keep your purchase receipt for warranty claims.

