

Important Information about Charging, Storing, and Handling LiPo Batteries

LiPo batteries (Lithium-Polymer batteries) are commonly used in airsoft guns, drones, and other electronic devices because of their high energy density, low weight, and ability to provide fast and stable power delivery. Although they require careful handling and caution, LiPo batteries offer several advantages that make them a popular choice:

- **High Energy Density:** LiPo batteries have a much higher capacity relative to their size and weight compared to many other battery types. This means you can get longer usage time from a smaller and lighter battery, which is particularly important for products requiring both high power and compact design, such as airsoft guns.

- **Fast Charging:** LiPo batteries can be charged much faster than other types of batteries, making them ideal for devices that require quick energy recovery.

- **High Current Capability:** LiPo batteries can deliver high currents over short periods, making them ideal for devices that need a lot of energy at once, such as electric guns where rapid shots are essential.

However, despite these advantages, it's important to understand how to handle and maintain LiPo batteries correctly to avoid damage and ensure a long lifespan. Here is a comprehensive guide to help you handle LiPo batteries properly.

1. Charging the Battery Correctly

Charging LiPo batteries properly is crucial for both safety and longevity:

- **Use the Correct Charger:** Always use the included charger or another compatible charger designed for LiPo batteries. Standard chargers for other types of batteries will not work for LiPo batteries and could cause damage or fire.

- **Never Charge Unattended:** Never leave batteries charging without supervision. It is safest to be present when batteries are charging, especially if they are charged with higher currents (fast-charging).

- **Charge in a Safe Location:** Charge the batteries on a fire-resistant surface, such as a table with fireproofing, preferably inside a **LiPo bag** (more on this below). Avoid charging near combustible materials like wood or textiles.

- **Recommended Charging Current:** To avoid overheating and damaging the battery,

follow the manufacturer's recommendations for charging current. A good rule of thumb is to use a charging current of ****1C****, meaning you divide the battery's capacity (mAh) by 1000 to get the proper amperage.

- **Example:** A battery with a capacity of 1100 mAh should be charged at 1.1 A (1C). If you want to fast-charge, you can use a current of ****1.5C****, which means charging at 1.65 A for a 1100 mAh battery. However, note that this may wear down the battery faster, so it's not recommended to do this regularly.

- **Balancing Connector:**

When charging a LiPo battery, make sure both the main power connector and the balancing connector are attached. The balancing connector is critical for ensuring that each cell in the battery is charged evenly. If this connector is not properly connected, the battery may have overcharged cells, which could cause damage to the battery and potentially dangerous situations like fire or explosion.

In some cases, if your charger is designed for it, connecting **only the white balancing connector** may be sufficient for proper charging. However, always make sure to read and follow the instructions from the manufacturer of both the battery and the charger.

2. Storing Batteries Properly

To ensure that the batteries last a long time and do not pose unnecessary risks, it is important to store them correctly:

- **Store in a Cool and Dry Place:** LiPo batteries should be stored in a place where the temperature is not too high, such as away from heat sources or direct sunlight. Store batteries in a dry location to avoid moisture damage.

- **Never Store Fully Charged or Discharged:** Avoid storing LiPo batteries when they are fully charged or fully discharged. The ideal storage voltage for LiPo batteries is around

3. General Safety Guidelines

- **Never Connect a Battery Directly to the Gun When Not in Use:** A battery should never be connected to your airsoft gun when it's not in use, as this will drain the battery. A drained battery that cannot be recharged is not covered by warranty.

- **Do Not Force a Gun to Use the Last Bits of Power:** Never attempt to force your gun to use the last bit of power from the battery. Doing so may damage the battery, and in some cases, it may make it impossible to recharge.

- **Battery Disposal:** If a LiPo battery is damaged or can no longer be charged, dispose of it safely. Do not throw it in regular trash. Instead, contact your local disposal or recycling center for proper handling.

4. Safety Equipment and Accessories

- **LiPo Bag:** We strongly recommend purchasing a **LiPo bag** from us. A LiPo bag helps contain any potential fires or explosions while charging or storing LiPo batteries. It is a simple but effective way to ensure safety while handling LiPo batteries.
- **Ask the Staff for More Information:** If you have any questions or are uncertain about how to handle or store your LiPo batteries, feel free to ask our staff for more information.

5. LiPo Battery Warranty

LiPo batteries come with a limited warranty. It is important to note that LiPo batteries only break down if they are mishandled. If a battery fails due to improper charging, discharging, or storage, it will not be covered under warranty.

- **Batteries Should Never Go Below 10%:** Always ensure that your battery stays above 10% charge. A LiPo battery that is allowed to discharge completely may become impossible to recharge and may be permanently damaged.

By following these guidelines, you can maximize the lifespan and safety of your LiPo batteries.

Thank you for choosing us, and feel free to ask our staff for more tips on how to safely handle your LiPo batteries.