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VLM V2400HD, V2450FPV, V2450GPS, S1700, S1750

Sky Viper Drone Compatible Battery Instruction Manual

Model: V2400HD, V2450FPV, V2450GPS, S1700, S1750 Compatible Battery

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your VLM 3.7V 1200mAh High Capacity Battery, designed for compatibility with Sky Viper Drone models V2400HD, V2450FPV, V2450GPS, S1700, and S1750. Please read this manual thoroughly before first use to ensure proper handling, charging, and maintenance of the battery.

This battery is intended as a replacement or spare power source for the specified Sky Viper Drones. The drone itself is not included with the battery.

2. PRODUCT OVERVIEW



Figure 2.1: Close-up view of the VLM 3.7V 1200mAh battery, showing the label with specifications such as voltage, capacity, and manufacturing details. The label also includes recycling symbols and CE marking.



Figure 2.2: The VLM 3.7V 1200mAh battery displayed alongside various Sky Viper Drone models (V2400HD, V2450FPV, V2450GPS, S1700, S1750) to illustrate compatibility and typical use context. The drones are shown for example purposes only and are not included with the battery.

3. SETUP AND CHARGING

Before first use, the battery must be fully charged. Use only chargers specifically designed for 3.7V Lithium Polymer (LiPo) batteries and compatible with your Sky Viper Drone's charging system.

1. **Connect to Charger:** Carefully connect the battery's connector to the appropriate port on your drone's charger. Ensure the connection is secure and correctly oriented to avoid damage.
2. **Charging Indicator:** Observe the charging indicator on your charger. This typically changes color (e.g., red to green) or turns off when charging is complete. Refer to your drone's charger manual for specific indicator behavior.
3. **Charging Time:** Charging time may vary depending on the charger and the battery's initial charge level. Avoid overcharging the battery.
4. **Battery Insertion:** Once fully charged, disconnect the battery from the charger. Refer to your Sky Viper Drone's instruction manual for precise steps on how to safely insert the battery into the drone's battery compartment. Ensure the battery is securely seated before operation.

Important Safety Note:

- Never leave charging batteries unattended.
- Do not charge batteries on flammable surfaces.
- If the battery shows signs of swelling, leakage, or damage, discontinue use and dispose of it properly.

4. OPERATING GUIDELINES

This battery is designed to power your Sky Viper Drone. Proper operation of the drone itself should follow the drone's specific instruction manual. The following guidelines pertain to battery usage:

- **Full Charge Before Use:** Always ensure the battery is fully charged before operating your drone for optimal flight time and performance.
- **Avoid Deep Discharge:** Do not completely drain the battery during use. Stop drone operation when the drone's low battery warning activates or performance significantly decreases. Deep discharge can shorten battery lifespan.
- **Temperature Considerations:** Operate the drone and battery within recommended temperature ranges. Extreme cold or heat can affect battery performance and lifespan.
- **Secure Connection:** Always ensure the battery is securely connected within the drone's compartment before flight to prevent power interruptions.

5. MAINTENANCE AND STORAGE

Proper maintenance and storage will extend the life of your battery.

- **Regular Charging:** If storing the battery for an extended period, charge it to approximately 50-60% capacity. Do not store fully charged or fully discharged.
- **Storage Environment:** Store the battery in a cool, dry place, away from direct sunlight, heat sources, and flammable materials. The ideal storage temperature is between 10°C and 25°C (50°F and 77°F).
- **Inspect Regularly:** Periodically inspect the battery for any signs of damage, swelling, or corrosion. Discontinue use if any issues are observed.
- **Cleaning:** If necessary, gently wipe the battery and its connectors with a clean, dry cloth. Do not use liquids or abrasive cleaners.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Battery not charging	<ul style="list-style-type: none">Loose connectionFaulty chargerDamaged battery	<ul style="list-style-type: none">Ensure battery is securely connected to charger.Test with a different, known-good charger.Inspect battery for physical damage. If damaged, replace.
Short flight time	<ul style="list-style-type: none">Battery not fully chargedBattery degradationDrone issues (e.g., motor problems)	<ul style="list-style-type: none">Ensure battery is fully charged before each flight.Over time, all batteries degrade. Consider replacing if performance is consistently poor.Consult your drone's manual for drone-specific troubleshooting.
Battery swelling or overheating	<ul style="list-style-type: none">OverchargingInternal cell damageImproper use	<ul style="list-style-type: none">Immediately discontinue use and charging.Move to a safe, non-flammable area.Dispose of the battery properly according to local regulations. Do NOT attempt to use or repair.

If problems persist after attempting these solutions, please contact VLM Group customer support.

7. SPECIFICATIONS

- **Model Compatibility:** Sky Viper V2400HD, V2450FPV, V2450GPS, S1700, S1750 Drones
- **Battery Type:** Lithium Polymer (LiPo)
- **Voltage:** 3.7V
- **Capacity:** 1200mAh (Milliampere Hour)
- **Energy:** 4.44Wh (Watt-hour)
- **Dimensions (Approximate):** Length: 55mm, Width: 30mm, Thickness: 8mm
- **Weight (Approximate):** 4 ounces (113 grams)
- **Manufacturer:** VLM Group
- **Date First Available:** September 21, 2021

8. WARRANTY INFORMATION

For detailed warranty information regarding your VLM 3.7V 1200mAh High Capacity Battery, please refer to the warranty card included with your purchase or visit the official VLM Group website. Warranty terms and conditions may vary and typically cover manufacturing defects for a specified period from the date of purchase.

9. CUSTOMER SUPPORT

If you have any questions, concerns, or require technical assistance with your VLM battery, please contact VLM Group customer support through their official channels. Contact information can typically be found on the product packaging or the VLM Group website.

For issues related to your Sky Viper Drone's operation or compatibility, please consult the drone's manufacturer or its specific instruction manual.

