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› VLM 3.7V 1200mAh High Capacity Battery Instruction Manual for Sky Viper Drones (V2400HD, V2450FPV, V2450GPS, S1700, S1750)

VLM 3.7V 1200mAh Battery

VLM 3.7V 1200mAh High Capacity Battery Instruction Manual

For Sky Viper Drones: V2400HD, V2450FPV, V2450GPS, S1700, S1750

1. INTRODUCTION

Thank you for choosing VLM high capacity replacement batteries. This manual provides essential information for the safe and effective use of your new 3.7V 1200mAh batteries, designed for various Sky Viper drone models. Please read this manual thoroughly before use to ensure optimal performance and safety.

2. PRODUCT OVERVIEW

This product includes a set of VLM 3.7V 1200mAh Lithium-Ion batteries, engineered to provide extended flight times for compatible Sky Viper drones. These batteries offer a higher capacity compared to standard OEM batteries, enhancing your drone experience.





Image 2.1: Three VLM 3.7V 1200mAh high capacity batteries. Each battery features a black casing with red and black wires terminating in a compatible connector. The label indicates 'VLM GROUP', '3.7V 1200mAh', '883052 4.44Wh', 'P210123', and a recycling symbol with 'BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY'.

Compatibility:

- Sky Viper V2400HD
- Sky Viper V2450FPV
- Sky Viper V2450GPS
- Sky Viper S1700

- Sky Viper S1750



Image 2.2: A collage displaying several Sky Viper drone models, including black and green, and white and gold variants, with and without propeller guards. This image illustrates the range of drones compatible with the VLM batteries.

3. SAFETY INFORMATION

Lithium-Ion batteries require careful handling. Adhere to the following safety guidelines to prevent injury or damage:

- **Charging:** Only use chargers specifically designed for 3.7V Lithium-Ion batteries. Do not overcharge or leave charging unattended.
- **Storage:** Store batteries in a cool, dry place, away from direct sunlight, heat sources, and flammable materials. Do not store fully charged or fully discharged for extended periods.
- **Handling:** Do not puncture, crush, short-circuit, or disassemble the battery. Avoid exposing batteries to water or extreme temperatures.
- **Disposal:** Dispose of batteries properly according to local regulations. The battery label explicitly states: **BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.**
- **Damage:** If a battery shows signs of swelling, leakage, or damage, discontinue use immediately and dispose of it safely.



Image 3.1: A close-up view of a single VLM 3.7V 1200mAh battery, highlighting the label with specifications and the recycling instruction. This emphasizes the importance of proper disposal.

4. SETUP

4.1 Initial Charging

Before first use, fully charge all batteries using a compatible Li-Ion battery charger. Refer to your drone's original manual or charger instructions for proper charging procedures. Ensure the battery connector is securely attached to the charger.

4.2 Battery Installation

1. Ensure your drone is powered off before attempting to install or remove batteries.
2. Locate the battery compartment on your Sky Viper drone. This is typically on the underside or rear of the drone.
3. Carefully insert the VLM battery into the compartment. The battery dimensions are approximately **L - 55mm, W - 30mm, T - 8mm**.
4. *Note:* Some users have reported that the battery pack might be a snug fit in certain drone models. If necessary, gently adjust the battery's position or check for any internal obstructions in the compartment. Avoid forcing the battery into place.

5. Connect the battery's plug to the drone's power port, ensuring the connection is firm and correct.
6. Close the battery compartment cover securely.



Image 4.1: A black and green Sky Viper drone, viewed from the front. This image represents a typical compatible drone model where the battery would be installed.

5. OPERATING

Once the battery is installed and fully charged, you can operate your Sky Viper drone as usual. These high-capacity batteries are designed to provide extended flight times compared to original equipment manufacturer (OEM) batteries.

- **Flight Duration:** Expect longer flight times due to the 1200mAh capacity. Actual flight time will vary based on drone model, flight conditions, and piloting style.
- **Battery Monitoring:** Always monitor your drone's battery indicator during flight. Land the drone safely when the battery level is low to prevent unexpected power loss.
- **Temperature:** Avoid operating the drone in extremely cold or hot conditions, as this can affect battery performance and lifespan.

6. MAINTENANCE

6.1 Charging Practices

- Always use a charger compatible with 3.7V Li-Ion batteries.
- Do not leave batteries charging unattended, especially overnight.
- Allow batteries to cool down before recharging after a flight.

6.2 Storage

- For long-term storage, it is recommended to store Li-Ion batteries at approximately 50-60% charge.
- Store in a cool, dry environment, away from direct sunlight and extreme temperatures.
- Keep batteries in a fireproof bag or container if possible.

6.3 Cleaning

If necessary, gently wipe the battery casing and connectors with a dry, clean cloth. Do not use liquids or solvents.

7. TROUBLESHOOTING

- **Battery Not Charging:** Ensure the charger is functioning correctly and the battery connection is secure. Check for any visible damage to the battery or charger.

- **Short Flight Time:** While these are high-capacity batteries, flight time can be affected by aggressive piloting, strong winds, or cold temperatures. Ensure batteries are fully charged before each flight.
- **Battery Not Fitting:** As noted in the setup section, check the drone's battery compartment for any obstructions. Some minor adjustments to the compartment might be needed for a perfect fit.
- **Drone Not Powering On:** Verify the battery is fully charged and correctly connected to the drone. If the issue persists, consult your drone's manual or contact VLM Group LLC for support.

8. SPECIFICATIONS

Battery Type	Lithium Ion
Voltage	3.7V
Capacity	1200 Milliampere Hour (mAh)
Dimensions (Approx.)	Length: 55mm, Width: 30mm, Thickness: 8mm
Item Weight (per set of three)	4 ounces
Recommended Use	Drone
Manufacturer	VLM Group

9. WARRANTY AND SUPPORT

VLM Group LLC manufactures these batteries. Specific warranty details are not provided in the product information. For any questions, concerns, or support regarding your VLM batteries, please contact the seller or VLM Group LLC directly through their official channels.

We are committed to providing quality products and assistance.