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Gens ace GA-B-60C-4000-6S1P-EC5

Gens ace 22.2V 4000mAh 60C 6S LiPo Battery Pack with EC5 Plug User Manual

1. Introduction

This manual provides essential information for the safe and effective use of your Gens ace 22.2V 4000mAh 60C 6S LiPo Battery Pack with EC5 Plug. Please read this manual thoroughly before using the battery to ensure proper handling, charging, discharging, and storage procedures. Adhering to these guidelines will help maximize battery life and prevent potential hazards.



Image 1: The Gens ace 22.2V 4000mAh 60C 6S LiPo Battery Pack, showcasing its blue and white branding, EC5 connector, and balance lead.

2. Safety Information

Lithium Polymer (LiPo) batteries are powerful and require careful handling. Failure to follow safety instructions can result in fire, personal injury, and property damage. Always prioritize safety.

- **Charging:** Use only a LiPo compatible charger with a balance function. Never charge unattended. Charge in a fire-safe area, away from flammable materials.
- **Storage:** Store LiPo batteries at room temperature, in a dry place, and at a storage voltage (typically 3.8V-3.85V per cell). Do not store fully charged or fully discharged.
- **Handling:** Do not puncture, disassemble, short-circuit, or expose the battery to extreme temperatures or direct sunlight. Avoid physical impact.
- **Discharging:** Do not over-discharge the battery below 3.0V per cell. Over-discharging can permanently damage the battery and create a fire hazard during subsequent charging.

- **Damage:** If the battery becomes swollen, damaged, or shows any signs of abnormality, discontinue use immediately and dispose of it safely according to local regulations.
- **Disposal:** Never dispose of LiPo batteries in regular trash. Consult local regulations for proper disposal of LiPo batteries, often involving specialized recycling centers.

3. Product Features

The Gens ace 22.2V 4000mAh 60C 6S LiPo Battery Pack is designed for high-performance applications, offering reliability and efficiency.

- Utilizes superior Japan and Korea Lithium Polymer raw materials for consistent performance.
- Designed for quick recharging and a long cycle life (minimum 150 times).
- Achieves an energy density of up to 200Wh/kg.
- Equipped with an EC5 Plug connector and JST-XHR balancer connector for broad compatibility.

4. Setup

Before initial use, inspect the battery for any visible damage or swelling. Ensure all connectors are clean and free from debris.

1. **Initial Inspection:** Carefully remove the battery from its packaging. Check the battery casing, wires, and connectors for any signs of damage. Do not use if damaged.
2. **First Charge:** For optimal performance and safety, fully charge the battery using a compatible LiPo balance charger before its first use. Refer to the 'Operating: Charging' section for detailed instructions.
3. **Connecting to Device:** Ensure your device (e.g., RC vehicle, drone) is compatible with a 6S (22.2V) LiPo battery and features an EC5 connector. Connect the EC5 plug from the battery to your device's power input. Connect the balance lead to your charger's balance port when charging.



Image 2: Top view of the Gens ace LiPo battery, showing the main power leads with the EC5 connector and the white JST-XHR balance lead.

5. Operating

5.1 Charging

Always use a LiPo balance charger. Set the charger to the correct cell count (6S) and capacity (4000mAh). The charging current should generally not exceed 1C (4.0A for this 4000mAh battery) unless the battery specifies a higher charge rate.

1. Connect the main EC5 plug to the charger's output port.
2. Connect the JST-XHR balance lead to the charger's balance port.

3. Select the 'LiPo Balance Charge' program on your charger.
4. Set the cell count to 6S and the charging current to 4.0A (1C).
5. Start the charging process and monitor the battery and charger throughout. Disconnect immediately if any abnormality is observed.

5.2 Discharging

Avoid over-discharging the battery. Most electronic speed controllers (ESCs) have a low voltage cutoff (LVC) feature. Ensure this is set correctly for 6S LiPo batteries (typically around 3.4V-3.7V per cell, or 20.4V-22.2V total for 6S).

- Stop using the battery as soon as you notice a significant drop in power or when the LVC on your device activates.
- Never discharge below 3.0V per cell (18.0V total for 6S).



Image 3: Close-up view of the EC5 connector, highlighting its robust design for high current applications.

5.3 Storage

Proper storage is crucial for battery longevity and safety.

- For short-term storage (a few days), ensure the battery is at a storage voltage of 3.8V-3.85V per cell.
- For long-term storage (more than a week), charge or discharge the battery to a storage voltage of 3.8V-3.85V per cell.
- Store in a cool, dry place, away from direct sunlight, heat sources, and flammable materials. A LiPo-safe bag or container is recommended.

6. Maintenance

Regular maintenance helps ensure the battery's performance and lifespan.

- **Regular Inspection:** Periodically check the battery for any signs of physical damage, swelling, or unusual odors.
- **Connector Care:** Keep the EC5 and balance connectors clean and free of corrosion. Ensure they make a secure connection.
- **Temperature Management:** Avoid operating the battery in extremely hot or cold conditions. Allow the battery to cool down between uses, especially after high-discharge applications.

7. Troubleshooting

If you encounter issues with your Gens ace LiPo battery, consider the following common solutions:

- **Battery Not Charging:**
  - Ensure the charger settings (LiPo mode, cell count, current) are correct.
  - Check all connections (main and balance leads) for proper seating.
  - Verify the charger is functioning correctly with another battery if possible.
- **Reduced Run Time/Power:**
  - Check if the battery is fully charged and balanced.
  - Ensure the low voltage cutoff (LVC) on your device is set appropriately for 6S LiPo.
  - The battery may be aging or damaged. Consider replacing if performance significantly degrades.
- **Battery Swelling:**
  - Immediately discontinue use. Swelling indicates internal damage and a potential fire hazard.
  - Safely discharge the battery to 0V (if possible and safe to do so, e.g., with a specialized discharger in a fire-safe area) and dispose of it according to local regulations.

8. Specifications

Detailed technical specifications for the Gens ace 22.2V 4000mAh 60C 6S LiPo Battery Pack.

Parameter	Value
Brand	Gens ace
Model Number	GA-B-60C-4000-6S1P-EC5
Battery Cell Composition	Lithium Polymer
Capacity	4000mAh
Voltage	22.2V (6S)
Discharge Rate (C)	60C
Max Burst Discharge Rate (C)	120C
Configuration	6S1P
Net Weight (approx.)	706g (1.55lb)
Dimensions (L*W*H)	136mm x 42mm x 52mm (5.35in x 1.65in x 2.05in)
Connector Type	EC5 Plug
Wire Gauge	AWG10#
Wire Length	120mm
Balancer Connector Type	JST-XHR

Parameter	Value
Reusability	Rechargeable



Image 4: The Gens ace LiPo battery packaged securely in a box, indicating careful handling during shipping.

9. Warranty and Support

Gens ace is committed to providing high-quality products. For specific warranty information, please refer to the official Gens ace website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance, troubleshooting beyond this manual, or inquiries about product compatibility, please visit the

Gens ace official website or contact their customer service department. Always provide your product model number (GA-B-60C-4000-6S1P-EC5) when seeking support.

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