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› Gens ace 2S Lipo Battery Redline Series 5100mAh 7.6V 130C HardCase HV Shorty Lipo Battery User Manual

Gens ace GA-R-130C-5100-2S2P-HC65-HV

Gens ace 2S Lipo Battery Redline Series 5100mAh 7.6V 130C HardCase HV Shorty User Manual

Model: GA-R-130C-5100-2S2P-HC65-HV

1. PRODUCT OVERVIEW

The Gens ace Redline Series 2S 130C 5100mAh Hardcase LiPo Battery Pack is designed for high-performance remote control vehicles. This battery offers a high-capacity and high-discharge rate, providing reliable power and extended run-time. It features stable automatic stacking technology for consistent cell capacities and utilizes superior Japan and Korea Lithium Polymer raw materials for durability and performance.



Image 1: The Gens ace 2S Lipo Battery Redline Series 5100mAh 7.6V 130C HardCase HV Shorty Lipo Battery, showcasing its compact design and branding.

Key Features:

- **High Capacity:** 5100mAh for extended run times.
- **High Voltage:** 7.6V (2S2P configuration) for increased power.
- **High Discharge Rate:** 130C continuous discharge with a 260C max burst rate.
- **Durable Hardcase:** Provides protection for the battery cells.
- **Lightweight Design:** Optimized for performance in RC applications.

2. BASIC PARAMETERS

This section details the fundamental electrical and physical characteristics of your Gens ace LiPo battery.

BASIC PARAMETER

Capacity:	5100mAh
Voltage:	7.6V
Discharge Rate:	130C
Cell Configuration:	2S2P
Balancer Connector:	5.0mm bullet



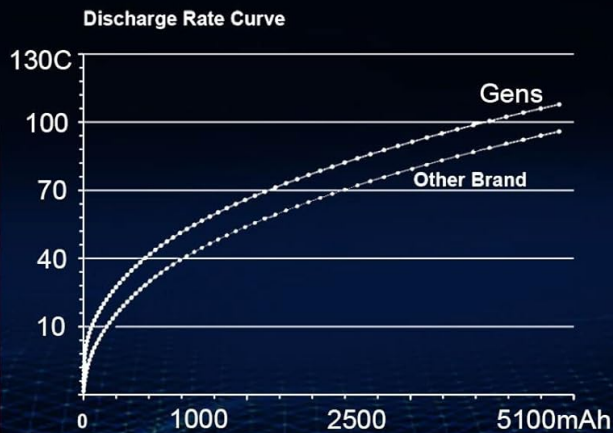
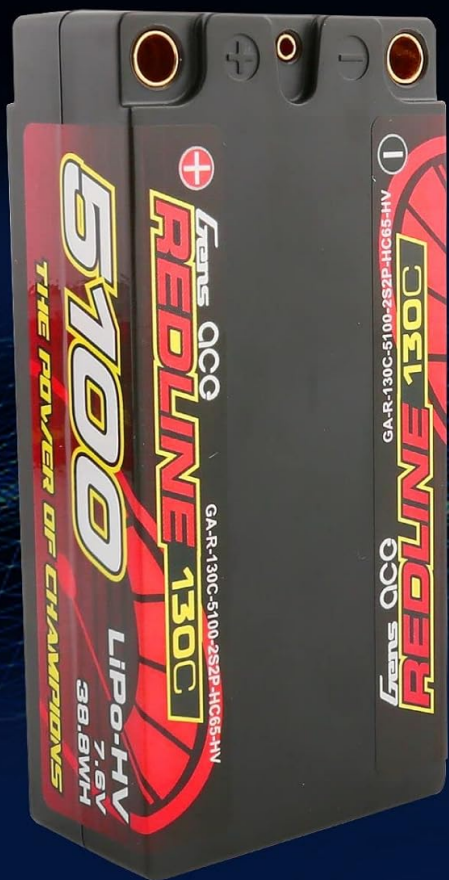
Image 2: An illustration detailing the basic parameters of the Gens ace 2S Lipo Battery, including capacity, voltage, discharge rate, cell configuration, and balancer connector type.

Parameter	Value
Capacity	5100mAh
Voltage	7.6V
Discharge Rate	130C
Cell Configuration	2S2P
Balancer Connector	5.0mm bullet
Weight	208g (0.46lb)
Dimensions (L x W x H)	96mm x 46mm x 25mm (3.78in x 1.81in x 0.98in)

3. PRODUCT ADVANTAGES

The Redline Series LiPo battery offers several advantages for demanding RC applications.

ADVANTAGE



Light Weight

Long Cycle Life

Ultra-Low Impedance

High Quality Material

Image 3: A visual representation highlighting the advantages of the Gens ace 2S Lipo Battery, including light weight, long cycle life, ultra-low impedance, and high-quality material.

- **Light Weight:** Contributes to improved vehicle performance and handling.
- **Long Cycle Life:** Designed for numerous charge and discharge cycles, ensuring longevity.
- **Ultra-Low Impedance:** Minimizes power loss and maximizes energy transfer.
- **High Quality Material:** Constructed with premium Japan and Korea Lithium Polymer raw materials for reliability.

4. CONNECTORS

Understanding the connector types is crucial for proper setup and charging.



Image 4: Close-up view of the Gens ace 2S Lipo Battery, showing the JST-XH plug for balancing and the 5.0mm bullet connectors for power output.

- **Power Connector:** 5.0mm bullet connectors for high current applications.
- **Balancer Connector:** JST-XH plug for cell balancing during charging.

5. APPLICATION

This battery is specifically designed for certain types of remote control vehicles.

STRONG ENDURANCE



Image 5: A collage showing various 1:8 and 1:10 scale RC racing cars, indicating the intended application for the Gens ace 2S Lipo Battery.

The Gens ace 2S 7.6V 5100mAh Lipo battery is compatible with 1:8 and 1:10 scale RC Racing Cars. Always ensure that the voltage, dimensions, and plug type of the battery match the requirements of your specific RC vehicle before use.

6. PACKAGE CONTENTS

Upon opening your product, verify that all listed items are present.

PACKAGE INCLUDED

1x 2S 130C 5100mAh Lipo Battery

1x User Manual

1x Wrapped Box



Image 6: The contents of the Gens ace 2S Lipo Battery package, including the battery itself, a user manual, and the product box.

- 1x Gens ace 2S 130C 5100mAh Lipo Battery
- 1x User Manual (this document)
- 1x Wrapped Box

7. SETUP

Before first use, carefully follow these setup instructions.

1. **Inspect the Battery:** Before connecting, visually inspect the battery for any signs of damage, swelling, or punctures. Do not use a damaged battery.
2. **Charge the Battery:** Always fully charge the battery before its first use. Use a compatible LiPo charger that supports 2S (7.6V) LiPo-HV batteries and has a balancing function. Connect the main power leads and the JST-XH balance lead to the charger.
3. **Charger Settings:** Set your charger to the correct LiPo-HV mode, 2S cell count, and a charge current appropriate for a 5100mAh battery (typically 1C-2C, which would be 5.1A to 10.2A for this battery). Refer to your charger's manual for specific instructions.
4. **Install in Vehicle:** Once fully charged, carefully install the battery into your RC vehicle, ensuring a secure fit and proper connection to the Electronic Speed Controller (ESC).

8. OPERATING INSTRUCTIONS

Follow these guidelines for safe and optimal operation of your LiPo battery.

- **Discharge Safely:** Do not discharge the battery below 3.0V per cell (6.0V for a 2S battery). Over-discharging can permanently damage the battery. Most ESCs have a low-voltage cutoff (LVC) feature; ensure it is set correctly for LiPo-HV batteries.
- **Temperature:** Operate the battery within a safe temperature range. Avoid extreme heat or cold. If the battery becomes excessively hot during use, allow it to cool down before recharging or further use.
- **Physical Protection:** The hardcase provides protection, but avoid severe impacts or crushing the battery.
- **Storage:** For long-term storage, charge the battery to a storage voltage (typically 3.8V-3.85V per cell). Store in a cool, dry place away from direct sunlight and flammable materials.

9. MAINTENANCE

Proper maintenance extends the life and performance of your LiPo battery.

- **Regular Inspection:** Periodically check the battery for any physical damage, swelling, or loose connectors.
- **Balance Charging:** Always use the balance charging function of your charger to ensure all cells maintain equal voltage. This is critical for LiPo battery health.
- **Avoid Overcharging/Over-discharging:** Use a quality charger with proper settings to prevent these conditions, which can severely damage the battery.
- **Clean Connectors:** Keep connectors clean and free of dirt or corrosion to ensure good electrical contact.

10. TROUBLESHOOTING

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

- **Battery Not Charging:**
 - Ensure all connections (main power and balance leads) are secure.
 - Verify charger settings are correct for LiPo-HV, 2S, and capacity.
 - Check if the charger or battery has any error indicators.
- **Short Run Time:**
 - Confirm the battery was fully charged.
 - Check for excessive current draw from the RC vehicle (e.g., motor issues, binding drivetrain).
 - Ensure the low-voltage cutoff (LVC) on your ESC is not set too high.
- **Battery Swelling:**
 - *Immediately discontinue use and charging.* Swelling indicates internal damage and a potential fire hazard.
 - Safely dispose of the battery according to local regulations for LiPo batteries.

11. SPECIFICATIONS

Detailed technical specifications for the Gens ace 2S Lipo Battery.

Specification	Detail
Product Dimensions	3.78 x 1.81 x 0.98 inches (96mm x 46mm x 25mm)
Item Weight	8 ounces (208g)
ASIN	B08C7J7FFQ
Item Model Number	GA-R-130C-5100-2S2P-HC65-HV
Battery Type	Lithium Polymer (LiPo-HV)
Number of Cells	2S (2 cells in series)
Configuration	2S2P
Nominal Voltage	7.6V
Capacity	5100mAh
Discharge Rate	130C
Max Burst Discharge Rate	260C
Connector Type	5.0mm bullet
Balancer Connector	JST-XH
Recommended Uses	Remote Control Vehicle (1:8 & 1:10 RC Racing Car)
Manufacturer	Gens ace
Date First Available	August 28, 2020

12. IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS

Lithium Polymer batteries are powerful and require careful handling. Failure to follow these instructions can result in fire, personal injury, and property damage. You must read these safety instructions and warnings before using or charging the battery.

- **Charging Location:** Always charge LiPo batteries in a fire-safe area, away from flammable materials, and on a non-combustible surface. Never charge unattended.
- **Charger Compatibility:** Use only a charger specifically designed for LiPo-HV batteries and ensure it is set to the correct cell count and voltage.
- **Damaged Batteries:** Do not charge or use a damaged, swollen, or punctured battery. Dispose of it immediately and safely.
- **Temperature Control:** Do not expose the battery to extreme temperatures (above 60°C / 140°F or below 0°C / 32°F).
- **Short Circuits:** Avoid short-circuiting the battery terminals.
- **Disassembly:** Never attempt to disassemble or modify the battery pack.
- **Children:** Keep batteries out of reach of children.
- **Disposal:** Dispose of LiPo batteries responsibly at designated recycling centers. Never put them in household trash.

13. OFFICIAL PRODUCT VIDEOS

There are currently no official seller-provided product videos available for this item. Please refer to the images and text descriptions for product information.

14. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Gens ace website. Keep your proof of purchase for any warranty claims.