

## Gens ace GEA42002S14D5

# Gens ace Redline 2.0 Series 4200mAh 2S Lipo Battery 140C 7.6V HV HardCase Shorty Instruction Manual

Model: GEA42002S14D5

## 1. INTRODUCTION

Thank you for choosing the Gens ace Redline 2.0 Series 4200mAh 2S Lipo Battery. This high-performance Lithium Polymer (LiPo) battery is designed for demanding RC applications, offering a 140C discharge rate and a 7.6V HV (High Voltage) configuration in a durable hard case. This manual provides essential information for the safe and effective use, charging, and maintenance of your battery. Please read it thoroughly before use.

## 2. SAFETY INSTRUCTIONS

**WARNING: Lithium Polymer batteries are volatile. Failure to follow these instructions can result in fire, personal injury, and property damage.**

- **Charging Safety:**

- Always use a LiPo-compatible charger with a balance charging function.
- Never charge batteries unattended.
- Charge batteries in a fireproof area or a LiPo-safe charging bag.
- Do not charge batteries that are swollen, damaged, or have exposed wires.
- Ensure the charger settings match the battery's voltage (7.6V HV) and capacity (4200mAh).

- **Discharge Safety:**

- Do not over-discharge the battery. Stop using the battery when you notice a significant drop in power or when the voltage reaches the minimum safe level (typically 3.0V per cell for standard LiPo, consult your ESC/vehicle manual for HV LiPo cutoffs).

- **Handling and Storage:**

- Do not puncture, drop, short circuit, or expose the battery to extreme temperatures (hot or cold).

- Store batteries in a cool, dry place, away from direct sunlight and flammable materials.
  - For long-term storage, charge the battery to a storage voltage (typically 3.8V-3.85V per cell).
  - Keep batteries out of reach of children and pets.
- **Disposal:**
    - Do not dispose of LiPo batteries in regular trash. Consult local regulations for proper LiPo battery recycling or disposal.

### 3. PRODUCT OVERVIEW

The Gens ace Redline 2.0 Series 4200mAh 2S Lipo Battery is engineered for high-performance remote-controlled vehicles. Its hard case design provides enhanced protection, while the 140C discharge rate ensures ample power delivery for competitive racing and demanding applications. This package includes two batteries.



Image 1: Two Gens ace Redline 2.0 Series 4200mAh 2S Lipo Batteries, showing the top view with branding and specifications.



Image 2: A single Gens ace Redline 2.0 Series 4200mAh 2S Lipo Battery, presented at an angle to highlight its hard case design and connectors.

## 4. SETUP

### 4.1 Initial Charging

1. Connect the battery's balance lead to the balance port on your LiPo-compatible charger.
2. Connect the main discharge plug (5.0mm bullet) to the main output port of your charger.
3. Set your charger to the 'LiPo HV Balance Charge' mode.
4. Set the voltage to 2S (7.6V) and the charging current to 1C (4.2A for a 4200mAh battery). Never exceed 1C unless specified by the manufacturer.
5. Begin charging and monitor the process closely. The charger will indicate when charging is complete.

### 4.2 Connecting to Your RC Model

1. Ensure your RC model's Electronic Speed Controller (ESC) is compatible with 2S LiPo HV batteries and has a 5.0mm bullet connector or an appropriate adapter.
2. Carefully connect the battery's main discharge plug to the ESC. Ensure correct polarity (red to positive, black to negative).
3. Secure the battery within the battery tray of your RC model to prevent movement during operation.

## 5. OPERATING

Once properly charged and installed, your Gens ace Redline 2.0 Series LiPo battery is ready for use in your RC model.

- **Pre-Run Check:** Before each use, visually inspect the battery for any signs of damage, swelling, or exposed wires. Ensure all connections are secure.
- **During Operation:** Monitor your RC model's performance. If you notice a significant decrease in power or speed, it's an indication that the battery is nearing its discharge limit.
- **Post-Run:** After use, allow the battery to cool down before recharging. Never attempt to charge a hot battery.





Image 3: Side view of the Gens ace Redline 2.0 Series 4200mAh 2S Lipo Battery, highlighting its compact 'shorty' form factor.

## 6. MAINTENANCE

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

- **Cleaning:** Keep the battery and connectors clean and free from dirt, dust, and moisture. Use a soft, dry cloth for cleaning.
- **Inspection:** Regularly inspect the battery for any physical damage, such as cracks in the hard case, swelling, or damaged wires/connectors. Discontinue use immediately if any damage is found.
- **Storage:** For optimal longevity, store the battery at room temperature (15-25°C or 59-77°F) and at a storage voltage of 3.8V-3.85V per cell. Do not store fully charged or fully discharged for extended periods.





Image 4: Gens ace Redline 2.0 Series 4200mAh 2S Lipo Battery shown with its retail packaging, including a small instruction card and 5.0mm bullet connectors.

## 7. TROUBLESHOOTING

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

- **Battery Not Charging:**

- Ensure all connections between the battery and charger are secure.
- Verify charger settings (LiPo HV, 2S, 4.2A) are correct.
- Check for any damage to the battery or charger cables.

- **Reduced Run Time:**

- Ensure the battery is fully charged before use.
- Check for proper storage voltage when not in use.
- Battery age and number of cycles can affect performance.

- **Battery Swelling:**

- **IMMEDIATELY DISCONTINUE USE AND CHARGING.** Swelling indicates internal damage and a high risk of fire.
- Carefully move the battery to a safe, non-flammable location.
- Do not attempt to charge or use a swollen battery. Dispose of it safely according to local regulations.

## 8. SPECIFICATIONS

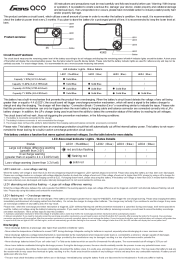
Feature	Specification
Battery Type	Lithium Polymer (LiPo-HV)
Voltage	7.6V
Configuration	2S
Capacity	4200mAh
Discharge Rate	140C
Plug Type	5.0mm bullet
Dimensions	96 x 47 x 19 mm (3.8 x 1.9 x 0.7 inches)
Approx. Weight	157g (0.3 lb)
Case Type	HardCase Shorty
ASIN	B0CX95F3JL
Manufacturer	Gens ace





## 9. WARRANTY AND SUPPORT

Gens ace is committed to providing high-quality products and customer satisfaction. If you have any questions, concerns, or require assistance with your Gens ace Redline 2.0 Series LiPo battery, please contact our customer service team. We offer 7x24 hours friendly customer service to address any issues you may encounter.

Please refer to your purchase documentation for specific warranty terms and conditions.

### Related Documents - GEA42002S14D5

	<p><a href="#">Gens Ace &amp; Tattu LiPo Battery User Manual: Safety, Charging, and Operation Guide</a></p> <p>Detailed user manual for Gens Ace and Tattu LiPo batteries. Learn about product features, LED indicators, safe charging, discharging, storage, troubleshooting, and warranty information for RC hobby applications.</p>
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	<p><a href="#">Gens ace iMars S10 Smart Battery Charger - User Manual &amp; Specifications</a></p> <p>Comprehensive guide to the Gens ace iMars S10 smart battery charger, covering safety, operation, specifications, troubleshooting, and warranty. Compatible with G-Tech and LiPo batteries.</p>
	<p><a href="#">Gens Ace IMARS mini Smart Charger User Guide</a></p> <p>Comprehensive user guide for the Gens Ace IMARS mini G-Tech 60W RC battery charger, detailing features, operation, safety, and specifications for LiPo, LiHV, LiFe, and NiMH batteries.</p>
	<p><a href="#">Gens Ace IMARS D300 Dual Smart Balance Charger Instruction Manual</a></p> <p>Comprehensive instruction manual for the Gens Ace IMARS D300 Dual Smart Balance Charger, covering safety instructions, product overview, operation, settings, troubleshooting, and warranty information.</p>
	<p><a href="#">Gens ace iMars S100 Intelligent Balance Charger User Guide</a></p> <p>Comprehensive user guide for the Gens ace iMars S100 intelligent balance charger, covering safety, operation, features, troubleshooting, and warranty. Supports G-Tech technology and multiple battery types.</p>
	<p><a href="#">Nopix ACE Serie Termisk Kikarsikte Bruksanvisning</a></p> <p>Denna bruksanvisning ger detaljerad information om Nopix ACE-seriens termiska kikarsikten, inklusive specifikationer, funktioner, säkerhetsinstruktioner och användning för jakt och observation.</p>