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**Gens ace GEA522S35GT**

# **Gens ace G-Tech Bashing 5200mAh 7.4V 35C 2S Lipo Battery User Manual**

## **INTRODUCTION**

Welcome to the user manual for your Gens ace G-Tech Bashing 5200mAh 7.4V 35C 2S Lipo Battery (Model: GEA522S35GT). This document provides essential information for the safe and effective use, setup, operation, and maintenance of your LiPo battery. Please read this manual thoroughly before using the product to ensure proper handling and to maximize battery life and performance.



Image: The Gens ace G-Tech Bashing 5200mAh 7.4V 35C 2S Lipo Battery with T-Plug connector.

## SAFETY INFORMATION AND WARNINGS

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

- **Charging:** Always use a LiPo-compatible charger. Never charge unattended. Charge on a non-flammable surface away from combustible materials. Do not overcharge; stop charging immediately if the battery swells or overheats.
- **Discharging:** Do not over-discharge the battery. Stop use immediately if the battery voltage drops below 3.0V per cell (6.0V for a 2S battery). Over-discharging can permanently damage the battery.
- **Storage:** Store LiPo batteries at room temperature (15-25°C or 59-77°F) and at a storage voltage of approximately 3.8V per cell. Keep away from direct sunlight, heat sources, and moisture.
- **Handling:** Do not puncture, drop, crush, or disassemble the battery. Avoid short-circuiting the battery terminals. Do not expose the battery to water or other liquids.
- **Damage:** If the battery becomes damaged, swells, or shows any signs of leakage, discontinue use immediately and dispose of it properly.
- **Disposal:** Dispose of LiPo batteries according to local regulations. Never dispose of LiPo batteries in regular household waste.

## PRODUCT FEATURES

- **G-Tech Smart Chip:** Built-in smart chip allows automatic identification with G-Tech Imars Mini or Imars D300 chargers for automatic charging and stopping when fully charged. Manual settings are not required with compatible G-Tech chargers.
- **High Performance:** The 35C discharge rate provides substantial power output for RC models.
- **Application:** Suitable for 1/10 scale RC car models.

## SPECIFICATIONS

Model Number	GEA522S35GT
Voltage	7.4V
Configuration	2S1P
Capacity	5200mAh
Discharge Rate	35C
Plug Type	T Plug
Dimensions (L*W*H)	138 x 46 x 25 mm (5.43 x 1.81 x 0.98 inches)
Approx. Weight	275g (0.61 lb)
Battery Cell Composition	Lithium Polymer



Image: The Gens ace G-Tech Bashing 5200mAh 7.4V 35C 2S Lipo Battery shown with its retail packaging.

## SETUP

1. **Initial Inspection:** Carefully inspect the battery for any signs of damage, swelling, or leakage upon receipt. Do not use if any damage is observed.
2. **First Charge:** Before initial use, fully charge the battery.
3. **Connecting to G-Tech Imars Charger:** If using a compatible G-Tech Imars Mini or Imars D300 charger, connect the battery's main T-plug and balance lead to the charger. The G-Tech Smart Chip will automatically detect the battery type and initiate the correct charging parameters.
4. **Connecting to a Regular Charger:** If using a non-G-Tech charger, you must manually set the charger parameters to match the battery specifications (7.4V, 2S, LiPo chemistry, 5200mAh capacity). Ensure the charger is set to the correct cell count and voltage to prevent damage.

## OPERATING INSTRUCTIONS

### Charging the Battery

- Always charge the battery in a safe, fire-resistant area.
- Connect the battery to your charger as described in the Setup section.
- Monitor the charging process. Disconnect immediately if the battery shows any signs of swelling, overheating, or smoke.
- Once charging is complete, disconnect the battery from the charger.

### Using the Battery

- Ensure your RC model is compatible with a 2S (7.4V) LiPo battery and T-plug connector.
- Connect the battery to your RC model's Electronic Speed Controller (ESC).
- During operation, avoid over-discharging the battery. Most ESCs have a low-voltage cutoff (LVC) feature for LiPo batteries. Ensure this feature is enabled and set correctly for 2S LiPo (typically around 3.2-3.4V per cell).
- Stop using the battery if you notice a significant drop in performance or if the model's LVC activates.

## MAINTENANCE

- **Storage:** For long-term storage, charge or discharge the battery to a storage voltage of 3.8V per cell (7.6V for a 2S battery). Store in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cleaning:** Keep the battery and connectors clean and free from dirt or debris. Use a soft, dry cloth for cleaning.
- **Regular Inspection:** Periodically inspect the battery for any physical damage, swelling, or signs of wear on the wires and connectors.

## TROUBLESHOOTING

- **Battery Not Charging:** Ensure all connections are secure. Verify the charger settings are correct for LiPo batteries (if not using a G-Tech smart charger). Check for any visible damage to the battery or charger.
- **Reduced Run Time:** This can indicate an aging battery, over-discharging, or improper charging. Ensure the battery is fully charged before use and avoid over-discharging.
- **Battery Swelling:** If the battery swells, immediately discontinue use and safely dispose of the battery. Swelling indicates internal damage and a potential safety hazard.
- **Overheating During Charge/Discharge:** If the battery becomes excessively hot, stop the process

immediately. This could indicate an internal short, overcurrent, or charger malfunction.

## **WARRANTY AND SUPPORT**

For warranty information or technical support regarding your Gens ace G-Tech Bashing LiPo battery, please refer to the official Gens ace website or contact their customer service directly. Keep your purchase receipt as proof of purchase.