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- › [Gens ace](#) /
- › [Gens ace G-Tech Adventure Lipo Battery User Manual](#)

Gens ace G-Tech Adventure 3600mAh 3S Lipo Battery

Gens ace G-Tech Adventure Lipo Battery User Manual

Model: G-Tech Adventure 3600mAh 3S Lipo Battery

1. INTRODUCTION

Thank you for choosing the Gens ace G-Tech Adventure High Voltage 11.4V 3600mAh 60C 3S Lipo Battery with XT60 Plug. This battery is designed for high-performance RC applications, offering reliable power and extended run times. Featuring a built-in G-Tech Smart Chip, it simplifies the charging process when used with compatible Gens ace G-Tech chargers. Please read this manual thoroughly before use to ensure proper operation, safety, and longevity of your battery.



Image: Gens ace G-Tech Adventure 3S Lipo Battery, showcasing its compact design and XT60 connector.

2. SAFETY PRECAUTIONS

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

- **Never leave charging batteries unattended.** Always charge in a fire-safe area.
- Do not charge, use, or store batteries near flammable materials or liquids.
- Use only chargers specifically designed for LiPo batteries. Ensure the charger settings match the battery's voltage and cell count (3S for this battery).
- Do not overcharge or over-discharge the battery. The voltage should not exceed 4.35V per cell (for HV LiPo) or drop below 3.0V per cell.
- Inspect the battery for damage (swelling, punctures, broken wires) before each use. Do not use damaged batteries.
- Avoid short-circuiting the battery terminals.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep batteries out of reach of children and pets.

3. SPECIFICATIONS

| Feature | Detail |
|---------------------------|--|
| Battery Type | Lithium Polymer (LiPo) |
| Voltage | 11.4V (High Voltage) |
| Configuration | 3S1P (3 Cells in Series, 1 Pack) |
| Capacity | 3600mAh |
| Discharge Rate (C-rating) | 60C |
| Discharge Plug | XT60 |
| Dimensions (L x W x H) | 89 x 42 x 24 mm (3.5 x 1.65 x 0.94 inches) |
| Approx. Weight | 214g (0.47 lb) |

4. SETUP

Upon receiving your Gens ace G-Tech Adventure battery, perform a visual inspection for any signs of damage during shipping. Ensure the XT60 connector and balance lead are intact.

4.1 Initial Charge

For optimal performance and longevity, it is recommended to fully charge the battery before its first use. Connect the XT60 discharge plug to your charger's main output and the balance lead to the charger's balance port. Ensure your charger is set to the correct LiPo HV (High Voltage) mode and 3S cell count.







Image: Close-up view of the Gens ace G-Tech Adventure battery, highlighting the XT60 power connector and the multi-pin balance lead for precise cell voltage monitoring during charging.

5. OPERATING INSTRUCTIONS

5.1 Charging with G-Tech Smart Chargers

The Gens ace G-Tech Adventure battery features a built-in Smart Chip. When connected to a compatible Gens ace G-Tech Imars Mini charger or Imars D300 charger, the battery will be automatically identified. The charger will then initiate automatic charging and stop once fully charged, simplifying the process and reducing the risk of incorrect settings.

5.2 Charging with Regular Chargers

If using a regular LiPo charger (non-G-Tech Smart compatible), manual settings are required. Ensure the charger is set to:

- **Battery Type:** LiPo HV (High Voltage)
- **Cell Count:** 3S
- **Charge Current:** Typically 1C (e.g., 3.6A for a 3600mAh battery). Do not exceed 2C.

Always connect both the main XT60 discharge plug and the balance lead to the charger. The balance lead ensures each cell is charged equally, which is crucial for LiPo battery health and safety.

5.3 Usage in RC Models

This battery is suitable for various RC cars and helicopters, including but not limited to ARRMA 1/10 BIG ROCK CREW CAB 4X4 3S BLX, TRX Aton drone, HeliMax Form 500 drone, scratch-built quads, frame F450, and VXL Slash. Ensure your RC model's ESC (Electronic Speed Controller) and motor are compatible with 3S LiPo HV batteries and the XT60 connector.

- Connect the battery's XT60 plug to the ESC's XT60 input.
- Secure the battery firmly within your model to prevent movement during operation.
- Monitor battery voltage during use. Stop operation when the battery reaches its minimum safe voltage (around 3.2V per cell under load) to prevent over-discharge.

6. MAINTENANCE AND STORAGE

Proper maintenance and storage are essential for maximizing the lifespan and performance of your LiPo battery.

- **Storage Voltage:** For long-term storage (more than a few days), charge or discharge the battery to its storage voltage, typically 3.8V-3.85V per cell. Most LiPo chargers have a 'Storage' mode.
- **Temperature:** Store batteries in a cool, dry environment, ideally between 5°C and 25°C (41°F and 77°F). Avoid extreme heat or cold.
- **Physical Protection:** Store batteries in a fire-resistant LiPo bag or container to minimize risk in case of an incident.

- **Regular Inspection:** Periodically inspect the battery for any signs of swelling, damage, or unusual odors. Discontinue use immediately if any issues are observed.
- **Disposal:** Never dispose of LiPo batteries in regular trash. They must be discharged to 0V and recycled at a designated battery recycling facility.

7. TROUBLESHOOTING






- **Battery Not Charging:**
 - Ensure both the XT60 main plug and the balance lead are securely connected to the charger.
 - Verify charger settings (LiPo HV, 3S) are correct.
 - Check for any visible damage to the battery or connectors.
- **Reduced Run Time/Performance:**
 - Ensure the battery is fully charged before use.
 - Check for signs of battery degradation (e.g., swelling).
 - Verify that the charger is balancing the cells correctly.
- **Battery Swelling:**
 - Immediately discontinue use and charging.
 - Place the battery in a fire-safe container (e.g., sand bucket).
 - This indicates internal damage; the battery should be safely discharged and disposed of.

8. WARRANTY INFORMATION

Gens ace products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official Gens ace website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your Gens ace G-Tech Adventure Lipo Battery that are not covered in this manual, please contact Gens ace customer support through their official website or authorized distributors. Provide your product model and purchase details for efficient assistance.

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| | <p>Gens ace iMars S10 Smart Battery Charger - User Manual & Specifications</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>Gens Ace IMARS mini Smart Charger User Guide</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>Gens Ace IMARS D300 Dual Smart Balance Charger Instruction Manual</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>Gens ace iMars D300 Plus Smart Balance Charger - Instruction Manual</p> <p>Comprehensive user manual for the Gens ace iMars D300 Plus Smart Balance Charger, detailing features, operation, safety instructions, and specifications.</p> |
|  | <p>Gens ace iMars S100 Intelligent Balance Charger User Guide</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>Gens Ace Imars III Pro Smart Balance Charger User Manual</p> <p>Comprehensive user manual for the Gens Ace Imars III Pro Smart Balance Charger, detailing setup, operation, features, troubleshooting, and warranty information. Covers safety precautions, product parameters, operating modes, battery settings, system configurations, and error resolution.</p> |