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› OVONIC 7.6V 300mAh Lipo Battery 100C High Voltage 2S with XT30 Plug User Manual

OVONIC O-100C-300-2S1P-XT30-HV-4P

OVONIC 7.6V 300mAh Lipo Battery 100C High Voltage 2S with XT30 Plug User Manual

Model: O-100C-300-2S1P-XT30-HV-4P

INTRODUCTION

This manual provides essential instructions for the safe and effective use, maintenance, and storage of your OVONIC 7.6V 300mAh 100C High Voltage 2S Lipo Battery with XT30 Plug. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

PRODUCT OVERVIEW AND PACKAGE CONTENTS

The OVONIC 7.6V 300mAh Lipo Battery is designed for high-performance RC applications, offering a 100C discharge rate for enhanced thrust and stable flight. Each package includes the following items:

- 2 x OVONIC 2S Lipo batteries
- 2 x Brand Stickers
- 1 x User Manual

PACKAGE INCLUDED



Image: Contents of the OVONIC 7.6V 300mAh Lipo Battery package, showing two batteries, brand stickers, and the user manual.

SPECIFICATIONS

Feature	Detail
Brand	OVONIC
Model Name	O-100C-300-2S1P-XT30-HV-4P
Chemistry	Lithium Polymer
Nominal Voltage	7.6V
Configuration	2S1P
Cell Voltage Range	3.8V ~ 4.2V
Capacity	300mAh

Discharge Rating	100C
Connector Type	XT30 Plug
Approximate Dimensions (L*W*H)	45.98 x 16.08 x 12.06mm (1.81 x 0.63 x 0.47inch)
Approximate Weight	19.00g (0.038lb)
Reusability	Rechargeable



Image: Detailed view of the OVONIC 7.6V 300mAh Lipo Battery, illustrating its dimensions, weight, XT30 plug, and JST-XHR-3P balance connector.

SETUP

1. Initial Inspection

Upon receiving your batteries, carefully inspect them for any signs of damage, swelling, or punctures. Do not use any battery that appears damaged.

2. Charging the Battery

It is crucial to use a compatible LiPo battery charger and to follow its instructions precisely. Always charge batteries in a fire-safe area and never leave charging batteries unattended.

- **Compatible Chargers:** For optimal protection and longevity, we highly recommend using official OVONIC Mate1, X1, or X1 Pro Chargers.
- **Avoid Overcharging/Overdischarging:** Overcharging or overdischarging can severely damage the battery and pose safety risks. Ensure your charger is set to the correct voltage and cell count for 2S LiPo batteries (7.6V nominal).
- **Balance Charging:** Always use the balance charging function to ensure all cells are charged equally. The battery is equipped with a JST-XHR-3P balance connector.

3. Connecting to Your Device

The battery features an XT30 plug for power connection. Ensure your device is compatible with this connector type and the battery's voltage (7.6V). Always connect the battery securely to prevent intermittent power loss.

4. Compatibility Check

Before use, verify that the battery's voltage, dimensions, and plug type are compatible with your RC model. This battery is suitable for various RC applications including airplanes, boats, cars, trucks, and other vehicles that require a 7.6V 2S LiPo with an XT30 plug.



Ensure compatibility by matching voltage, dimensions, and plug for your RC model, whether Airplane, boat, car, truck, or other vehicles.



Image: The OVONIC 7.6V 300mAh Lipo Battery displayed alongside various RC models, emphasizing the importance of matching voltage, dimensions, and plug for compatibility.

OPERATING INSTRUCTIONS

1. General Usage

Once charged and connected, the battery is ready for use. The 100C discharge rate provides high current output, translating to heightened thrust and a stable flight or driving experience for your RC model.

2. Monitoring Battery Voltage

Always monitor your battery's voltage during operation. Do not discharge the battery below its safe minimum voltage (typically 3.8V per cell for HV LiPo, or 7.6V for the 2S pack) to prevent irreversible damage and maintain battery health.

MAINTENANCE

1. Storage

For long-term storage, charge the battery to a storage voltage (typically 3.8V-3.85V per cell). Store batteries in a cool, dry place, away from direct sunlight, heat sources, and flammable materials. Use a LiPo-safe bag or container for added safety.

2. Battery Care

- Avoid physical damage to the battery pack.
- Do not expose batteries to extreme temperatures.
- Regularly inspect connectors for wear or damage.

Stacking Technology



Higher Energy Density **+6%**



Longer Running Time **+12%**



Lower Battery Swelling **-8%**



Lower Internal Resistance **-4%**



Winding Technology



Lower Energy Density

Shorter Running Time

Higher Battery Swelling

Higher Internal Resistance



Image: A diagram illustrating OVONIC's stacking technology compared to traditional winding technology, highlighting benefits like higher energy density and lower battery swelling.

OVONIC VS OTHERS

Powerful Performance For Your RC Models

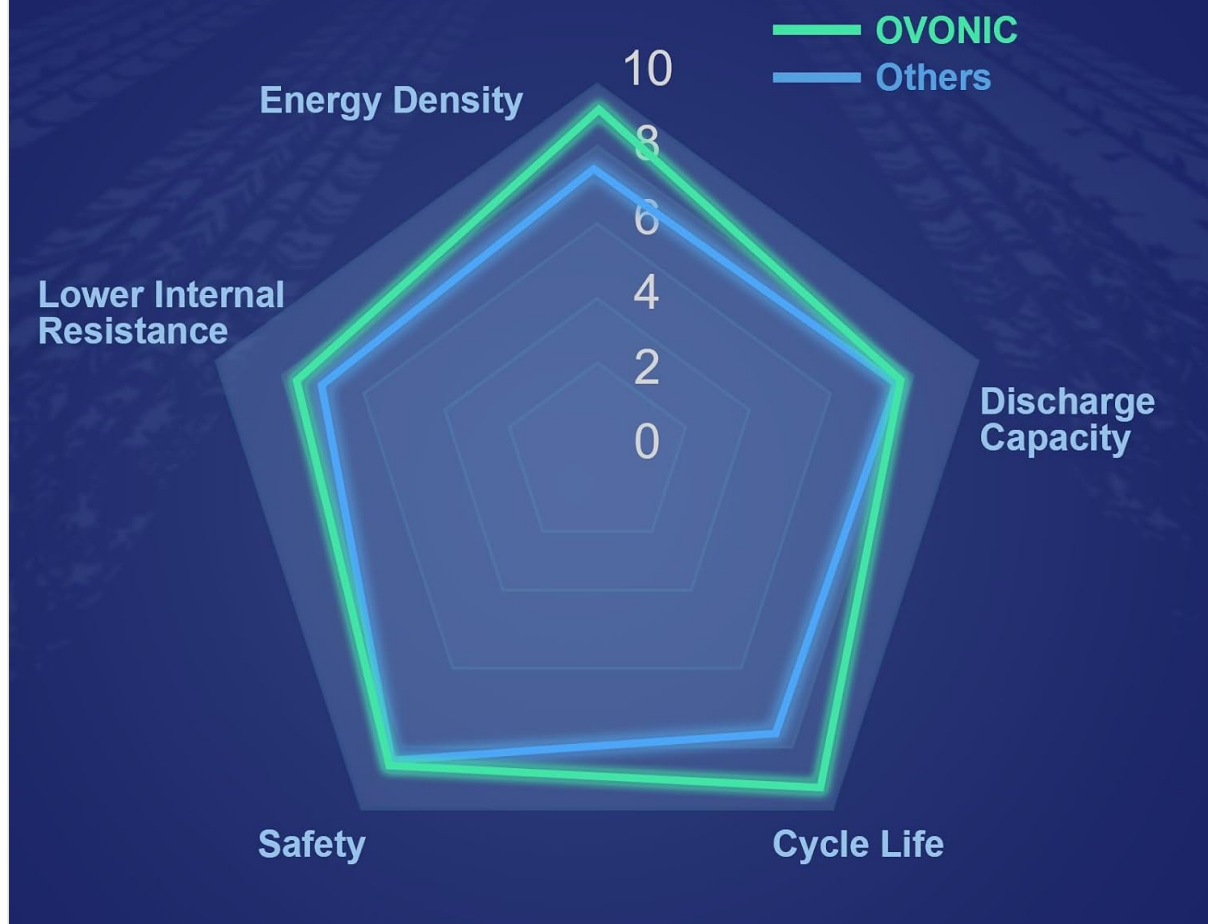


Image: A radar chart comparing OVONIC battery performance against other brands across metrics such as energy density, discharge capacity, cycle life, safety, and lower internal resistance.

TROUBLESHOOTING

If you encounter issues with your OVONIC battery, consider the following:

- **Battery Not Charging:** Ensure the charger is correctly connected, the power source is active, and the charger settings match the battery type (2S LiPo, 7.6V). Check for damaged connectors.
- **Reduced Run Time:** This could indicate an aging battery, improper charging, or excessive discharge during previous uses. Ensure proper charging and avoid over-discharging.
- **Battery Swelling:** Immediately discontinue use and safely dispose of any swollen battery. Swelling indicates internal damage and a significant safety risk.

For persistent issues or concerns, please refer to the Warranty & Support section for contact information.

SAFETY INFORMATION

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

- Never leave charging batteries unattended.
- Always charge batteries on a non-flammable surface and in a fire-safe area.
- Do not puncture, disassemble, or modify the battery.
- Avoid short-circuiting the battery terminals.
- Keep batteries away from children and pets.
- Do not expose batteries to water or moisture.
- If the battery becomes hot during charging or use, disconnect it immediately and allow it to cool in a safe, isolated area.
- Dispose of damaged or spent batteries according to local regulations.

WARRANTY & SUPPORT

OVONIC is committed to providing quality products and customer satisfaction. For any quality-related concerns or warranty inquiries within the 2-year period, please contact OVONIC customer service directly.

- **Contacting Support:** Provide clear photos of any issues to our customer service team for efficient resolution.
- **Response Time:** We aim to respond to all inquiries within 24 hours.

We wish you an enjoyable RC experience!

OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found to be relevant for embedding in this manual.