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› TATTU 650mAh 2S 7.4V 75C LiPo Battery Pack with XT30 Plug User Manual

## TATTU TA-75C-650-2S1P-XT30

# TATTU 650mAh 2S 7.4V 75C LiPo Battery Pack User Manual

## INTRODUCTION

Welcome to the user manual for your TATTU 650mAh 2S 7.4V 75C LiPo Battery Pack. This battery is engineered for high-performance applications such as FPV drones and RC models, offering a balance of capacity, discharge rate, and compact size. This manual provides essential information for safe and effective use, including setup, operation, maintenance, and troubleshooting.

## IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS

Lithium Polymer (LiPo) batteries are powerful energy sources and require careful handling. Failure to follow these instructions can result in fire, personal injury, and property damage. Read and understand all warnings before use.

- **Charging:** Always use a LiPo compatible charger with balance charging capabilities. Never charge unattended. Do not overcharge or discharge beyond recommended limits.
- **Storage:** Store LiPo batteries in a fireproof container or LiPo-safe bag, away from flammable materials, direct sunlight, and extreme temperatures.
- **Inspection:** Inspect the battery for any physical damage, swelling, or exposed wires before each use. Do not use a damaged battery.
- **Handling:** Do not puncture, disassemble, or modify the battery. Avoid short-circuiting the terminals.
- **Disposal:** Dispose of damaged or depleted LiPo batteries properly according to local regulations. Never throw them in regular trash.

# Package Included

1 \* 650mAh 75C 2S1P Lipo Battery



1 \* User Manual



1 \* Wrapped Box



Image: The TATTU 650mAh LiPo battery pack shown with its retail packaging, which includes a user manual containing important safety instructions and warnings. Always refer to the included manual for detailed safety guidelines.

## SETUP

### Initial Inspection

Upon receiving your TATTU LiPo battery, carefully inspect it for any signs of physical damage, such as dents, punctures, or swelling. Check that all connectors (XT30 and JST-XHR-3P balance plug) are intact and free from corrosion. Do not proceed with use if any damage is observed.

### Initial Charging

It is recommended to fully charge the battery before its first use. Follow these steps for safe initial charging:

1. Connect the XT30 discharge plug of the battery to the main output port of your LiPo compatible charger.
2. Connect the JST-XHR-3P balance plug of the battery to the balance port on your charger.
3. Set your charger to the 'LiPo Balance Charge' mode.
4. Configure the charger settings: Voltage to **7.4V (2S)** and Charge Current to **0.65A (1C rate for 650mAh)**.

5. Initiate the charging process and monitor the battery throughout. Discontinue charging immediately if the battery shows any signs of swelling or overheating.

## OPERATING INSTRUCTIONS

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### Connecting the Battery

Always ensure your device (e.g., FPV drone, RC model) is powered off before connecting the battery to prevent accidental activation or damage.

1. Align the XT30 plug on the battery with the corresponding XT30 receptacle on your device.
2. Firmly push the connectors together until they are fully seated and secure.
3. Ensure the balance lead is tucked away and will not interfere with any moving parts or propellers during operation.

### Disconnecting the Battery

To disconnect the battery, first power off your device.

1. Grip the XT30 connector firmly and pull it straight apart. Avoid pulling on the wires, as this can damage the connections.
2. Disconnect the balance lead from any securing mechanism.

### Usage Guidelines

- Do not discharge the battery below **3.0V per cell (6.0V for a 2S battery)**. Over-discharging can permanently damage the battery.
- Avoid continuous current draw exceeding the specified discharge rate of **75C**.
- Allow the battery to cool down to ambient temperature before recharging after heavy use.

# ***Strong Endurance***



Image: The TATTU 650mAh LiPo battery pack is shown with several FPV drones, illustrating its intended application in high-performance RC models.



Image: The TATTU 650mAh LiPo battery pack is depicted powering an FPV drone during flight, demonstrating its operational use in dynamic environments.

## MAINTENANCE AND STORAGE

### Storage

For optimal battery health and longevity, especially during long periods of inactivity, store the battery at a 'storage voltage' of approximately **3.8V per cell (7.6V for a 2S battery)**. Most modern LiPo chargers have a dedicated storage mode.

- Store batteries in a cool, dry place, away from direct sunlight, heat sources, and flammable materials.
- Always use a LiPo-safe bag or fireproof container for storage.

### Cleaning

Keep the battery casing and connectors clean and free from dust, dirt, and moisture. Use a dry, soft cloth to wipe the battery. Do not use liquids or solvents.

### Cycle Life

With proper care and adherence to charging/discharging guidelines, the TATTU LiPo battery is designed for a long cycle life, typically **150 cycles minimum**.

# Powerful Advantage



+15%

LONGER CYCLE LIFE

-8%

LIGHTER WEIGHT



-6%

ULTRA-LOW RESISTANCE



PREMIUM MATERIAL

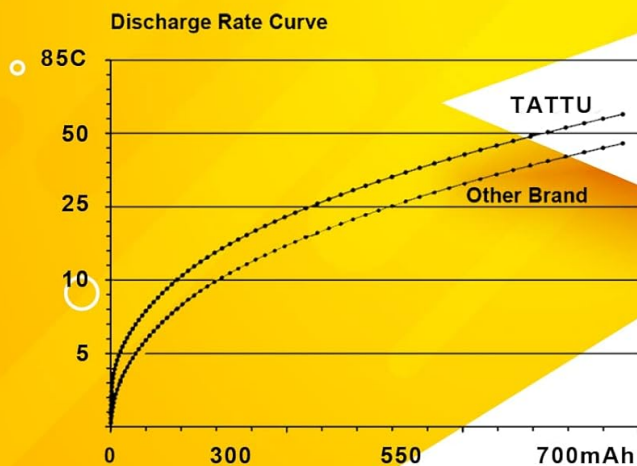


Image: A graphic highlighting the performance advantages of TATTU batteries, such as extended cycle life and reduced internal resistance, contributing to better overall battery health and longevity.

## TROUBLESHOOTING

If you encounter issues with your TATTU LiPo battery, refer to the following common problems and solutions:

- **Battery Not Charging:**

Ensure your charger is set to the correct LiPo mode (2S, 7.4V) and the charge current is appropriate (0.65A). Check all connections (XT30 and balance plug) for proper seating. Inspect the battery for any visible damage.

- **Reduced Performance (Flight Time/Power):**

This could indicate the battery is not fully charged, has been over-discharged in previous uses, or is reaching the end of its useful life. Ensure proper charging practices and avoid deep discharges.

- **Battery Swelling:**

If the battery casing appears swollen or puffed, immediately discontinue use. This is a sign of internal damage and a potential safety hazard. Safely discharge the battery to 0V and dispose of it according to local regulations. Do not attempt to charge or use a swollen battery.

- **Overheating During Use or Charging:**

Excessive heat can indicate a short circuit, over-discharge, or an issue with the charger. Discontinue use or charging immediately. Allow the battery to cool down and inspect for damage. Ensure your device's current draw does not exceed the battery's capabilities.

## PRODUCT SPECIFICATIONS

Feature	Specification
Brand	TATTU
Model Number	TA-75C-650-2S1P-XT30
Battery Type	Lithium Polymer (LiPo)
Capacity	650mAh
Voltage	7.4V
Configuration	2S1P
Discharge Rate	75C
Max Burst Discharge Rate	150C
Net Weight	43g (approx.)
Length	57mm
Width	31mm
Height	12mm
Connector Type	XT30 Plug
Wire Gauge	AWG16#
Wire Length	45mm
Balancer Connector Type	JST-XHR-3P

# Basic Parameter

Capacity

**650mAh**

Cell Configuration

**2S1P**

Discharge Rate

**75C**

Voltage

**7.4V**

Discharge Plug

**XT30**

Balance Plug

**JST-XHR-3P**

**38g (0.08lb)**

**56mm(2.2inch)**

**13mm  
(0.51inch)**

**31mm  
(1.22inch)**



JST-XHR-3P



AWG22#  
Silicone Line



XT30

Image: A detailed diagram illustrating the key specifications and physical dimensions of the TATTU 650mAh LiPo battery, along with its XT30 discharge plug and JST-XHR-3P balance plug.

## WARRANTY AND CUSTOMER SUPPORT

### Warranty Information

This TATTU LiPo battery is covered by a **60-day money-back guarantee** and an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects under normal use conditions. Damage resulting from misuse, improper charging, over-discharge, physical impact, or unauthorized modification is not covered.

### Customer Support

For any product-related inquiries, technical assistance, or warranty claims, please contact TATTU customer service. Refer to your purchase platform or the official TATTU website for the most current contact methods and support resources.