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TATTU TAA8503S45XT3

TATTU 850mAh 11.1V 45C 3S LiPo Battery Pack Instruction Manual

Model: TAA8503S45XT3

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1. PRODUCT OVERVIEW

The TATTU 850mAh 11.1V 45C 3S LiPo Battery Pack is designed for high-performance applications, specifically compatible with Multirotor 150 and 180 size FPV drones. This battery features superior Japan and Korea Lithium Polymer raw materials, automatic stacking technology for better performance, and strict matching processes for excellent consistency. It offers up to 200Wh/kg energy density and a long cycle life (150 times minimum).

Key features include:

- **High Capacity:** 850mAh for extended flight times.
- **High Voltage:** 11.1V (3S configuration) for powerful performance.
- **High Discharge Rate:** 45C continuous discharge rate with 90C max burst for demanding applications.
- **Compact Design:** Dimensions of 60*30*22mm (2.36*1.18*0.87 inches) and a weight of approximately 76g (2.68oz).
- **XT30 Plug:** Equipped with a reliable XT30 connector.
- **JST-XHR Balancer Connector:** For balanced charging.



BASIC PARAMETER

Capacity:	850mAh
Voltage:	11.1V
Discharge Rate:	45C
Cell Configuration:	3S1P
Balancer Connector:	XT30



Image: TATTU 850mAh 3S LiPo Battery with XT30 Plug. This image displays the battery pack with its XT30 main connector and JST-XHR balance connector.

2. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	TATTU
Capacity	850mAh
Voltage	11.1V
Discharge Rate (C)	45C
Max Burst Discharge Rate (C)	90C
Configuration	3S1P
Net Weight	76g (2.68oz)
Length	60mm (2.36 inches)

Feature	Specification
Width	30mm (1.18 inches)
Height	22mm (0.87 inches)
Connector Type	XT30 Plug
Wire Gauge	AWG16#
Wire Length	45mm
Balancer Connector Type	JST-XHR
Recommended Uses	Multicopter 150, 180 size FPV



Image: Close-up view of the TATTU 850mAh 3S LiPo Battery showing the XT30 main power connector and the JST-XH balance connector.

3. SAFETY GUIDELINES FOR LIPO BATTERIES

Lithium Polymer (LiPo) batteries are powerful and require careful handling to prevent fire, damage, or injury. Please read and follow all safety instructions.

General Safety Precautions:

- Always use a LiPo-compatible charger with a balance function. Never use a NiCd/NiMH charger.
- Never charge unattended. Always monitor the battery during charging.
- Charge in a fire-safe area, away from flammable materials, and on a non-combustible surface.
- Do not charge batteries that are swollen, damaged, or have exposed wires.
- Do not overcharge or over-discharge the battery. The voltage per cell should not exceed 4.2V (fully charged) or drop below 3.0V (discharged). For a 3S battery, this means 12.6V fully charged and 9.0V discharged.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not puncture, short-circuit, or disassemble the battery.
- Keep batteries away from children and pets.
- In case of fire, use a LiPo-specific fire extinguisher (e.g., sand, LiPo sack, or large amounts of water).

Charging Safety:

- Ensure your charger settings match the battery's specifications (3S, 11.1V, 850mAh).
- Always connect the balance lead to the charger's balance port during charging.
- Charge at a rate of 1C or less (e.g., for an 850mAh battery, charge at 0.85A or less).

4. SETUP AND INITIAL USE

Unpacking and Inspection:

Upon receiving your TATTU LiPo battery, carefully inspect it for any signs of damage, such as swelling, punctures, or exposed wires. If any damage is observed, do not use the battery and contact customer support immediately.



PACKAGE INCLUDED

- 1x 3S 45C 850mAh Lipo Battery
- 1x User Manual
- 1x Wrapped Box



Image: TATTU 850mAh 3S LiPo Battery shown with its retail box and a user manual, indicating the contents of the package.

Initial Charging:

1. Connect the XT30 main power connector of the battery to your LiPo charger's output.
2. Connect the JST-XHR balance connector to the balance port on your charger.
3. Set your charger to "LiPo Balance Charge" mode.
4. Configure the charger for a 3S (11.1V) battery.
5. Set the charging current to 0.85A (1C rate for an 850mAh battery).
6. Start the charging process and monitor the battery closely. The charger will automatically stop when the battery is fully charged (12.6V total, 4.2V per cell).

Connecting to Your Device:

Ensure your FPV drone or multirotor is powered off before connecting the battery. Align the XT30 plug from the battery with the XT30 receptacle on your device and push firmly until it clicks into place. Ensure the connection is secure to prevent power interruptions during flight.

5. OPERATION

Pre-Flight Check:

- Verify the battery is fully charged and balanced.
- Inspect the battery for any physical damage or swelling.
- Ensure the XT30 connector is securely attached to your FPV drone.
- Check that the battery is properly secured in your drone to prevent shifting during flight.

During Use:

- Monitor the battery voltage during flight using your FPV system's OSD (On-Screen Display) or a dedicated voltage checker.
- Avoid over-discharging the battery. Land your drone when the voltage approaches 3.5V per cell (10.5V for a 3S battery) under load.
- Do not continue to fly if the battery shows signs of overheating or swelling. Land immediately and safely disconnect the battery.

ADVANTAGE

Discharge Rate Curve

Discharge Rate (C)	Tattu Capacity (mAh)	Other Brand Capacity (mAh)
5C	~850	~850
15C	~850	~800
25C	~850	~750
35C	~850	~700
45C	~850	~650

Light Weight

Long Cycle Life

Ultra-Low Impedance

High Quality Material

Product Label: LESS IS MORE, Tattu, 850mAh 45C, TAA8503S#45XT3, 3 CELLS, 11.1V, 9.44Wh

Image: An FPV drone with the TATTU 850mAh 3S LiPo Battery installed, ready for flight. This illustrates the typical application of the battery.

6. MAINTENANCE AND STORAGE

Post-Use Care:

- Allow the battery to cool down completely before recharging.

- If the battery will not be used for an extended period, discharge or charge it to a storage voltage of 3.8V per cell (11.4V for a 3S battery). Most LiPo chargers have a "Storage" mode for this purpose.

Long-Term Storage:

- Store LiPo batteries in a cool, dry environment (ideally between 5-20°C or 40-70°F).
- Use a fire-resistant LiPo bag or metal ammunition box for storage to minimize risk in case of an incident.
- Do not store fully charged or fully discharged batteries for long periods, as this can degrade battery life.

Disposal:

Never dispose of LiPo batteries in regular household trash. They must be disposed of properly at a hazardous waste collection facility or a battery recycling center. Fully discharge the battery before disposal.

7. TROUBLESHOOTING

Battery Not Charging:

- **Check Connections:** Ensure both the main XT30 connector and the JST-XHR balance connector are securely plugged into the charger.
- **Charger Settings:** Verify that the charger is set to the correct battery type (LiPo), cell count (3S), and voltage (11.1V).
- **Charger Malfunction:** Try another known-good LiPo battery or charger to isolate the issue.

Reduced Flight Time/Power:

- **Battery Age/Cycles:** LiPo batteries degrade over time and with use. Reduced performance may indicate the battery is nearing the end of its lifespan.
- **Over-Discharge:** Repeatedly over-discharging the battery can permanently damage its capacity and internal resistance.
- **Temperature:** Extreme cold can temporarily reduce battery performance. Allow the battery to warm up before use.

Battery Swelling:

Battery swelling is a serious sign of internal damage, often caused by overcharging, over-discharging, or physical impact. If your battery swells:

- Immediately discontinue use and charging.
- Place the battery in a fire-safe container (e.g., LiPo bag, sand bucket) outdoors.
- Do not attempt to use or repair a swollen battery. Dispose of it safely according to local regulations.

8. WARRANTY AND CUSTOMER SUPPORT

The TATTU 850mAh 11.1V 45C 3S LiPo Battery comes with a 60-day money-back guarantee and an 18-month warranty.

For any problems with your product or for customer service inquiries, please contact us directly through your order details by entering "YOU ORDER". Our friendly customer service team is available 24 hours a day to assist you.

For more information and product updates, visit the official TATTU store: [TATTU Store on Amazon](#).

9. PRODUCT VIDEOS

Tattu 850mAh 11.1V 45C 3S LiPo Battery Pack with XT30 Plug Overview

Your browser does not support the video tag.

Video: An official product video from Tattu showcasing the 850mAh 11.1V 45C 3S LiPo Battery Pack with XT30 Plug in various FPV and RC applications, highlighting its performance and durability in diverse environments.

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