

Tattu TA-45C-1800-3S1P-XT60

Tattu 11.1V 1800mAh 3S 45C LiPo Battery Pack User Manual

Model: TA-45C-1800-3S1P-XT60

Brand: Tattu

INTRODUCTION

This manual provides essential information for the safe and effective use of your Tattu 11.1V 1800mAh 3S 45C LiPo Battery Pack. Tattu LiPo batteries are designed for high-performance applications, particularly in UAV and UAS markets, offering superior quality and reliability. Please read this manual thoroughly before using the battery.



Image: The Tattu 11.1V 1800mAh 3S 45C LiPo Battery Pack, featuring its black and orange label, XT60 connector, and balance lead.

SAFETY INFORMATION

WARNING: Lithium Polymer (LiPo) batteries are powerful and can be dangerous if not handled correctly. Failure to follow these instructions can result in fire, personal injury, and property damage.

- Do not throw the battery into fire.
- Never leave charging batteries unattended.
- Always charge LiPo batteries on a fire-resistant surface and away from flammable materials.
- Use only chargers specifically designed for LiPo batteries and ensure correct voltage and cell count settings.
- Do not overcharge or over-discharge the battery. Overcharging can lead to fire, and over-discharging can damage the battery.
- Do not puncture, disassemble, short circuit, or modify the battery.
- Keep batteries out of reach of children and pets.
- If the battery swells, smokes, or gets excessively hot, immediately disconnect it and move it to a safe, non-flammable area.
- Store batteries in a cool, dry place, ideally in a LiPo-safe bag or container.

WHAT'S IN THE BOX

Your Tattu LiPo Battery Pack package includes:

- 1x Tattu 1800mAh 45C 3S1P LiPo Battery Pack with XT60 Plug
- User Manual (this document)



Image: The Tattu LiPo battery alongside its black packaging box and a small instruction leaflet.

SETUP

Initial Inspection

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

First Charge

Before first use, it is recommended to fully charge the battery. Use a compatible LiPo balance charger. Connect the main XT60 plug to the charger's output and the JST-XH balance plug to the charger's balance port. Set your charger to the correct cell count (3S for this battery) and charging current (typically 1C, which is 1.8A for an 1800mAh battery). Always monitor the charging process.



Image: Close-up view of the Tattu LiPo battery's XT60 main connector, JST-XH balance connector, and internal cell configuration (3S1P).

OPERATING

Connecting to Device

Ensure your device (e.g., drone, RC vehicle) is powered off before connecting the battery. Connect the XT60 plug of the battery to the corresponding XT60 connector on your device. Ensure a secure connection.

Discharge Guidelines

Avoid over-discharging your LiPo battery. The minimum safe voltage for a 3S LiPo battery is 3.0V per cell, or 9.0V total. It is highly recommended to stop using the battery when any cell reaches 3.5V-3.7V under load to prolong its lifespan. Over-discharging can permanently damage the battery and reduce its capacity.



Image: The Tattu LiPo battery centrally positioned, surrounded by various drone models it is compatible with, such as the Skylark M4-FPV250, Mini Shredder 200, and QAV250.

MAINTENANCE

Storage

For long-term storage, charge or discharge the battery to its storage voltage, typically 3.8V-3.85V per cell (11.4V-11.55V for a 3S battery). Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures. A LiPo-safe bag or fireproof container is recommended.

Balancing

Regularly balance charge your LiPo battery to ensure all cells maintain similar voltage levels. This is crucial for battery health and longevity.

Temperature

Avoid operating or charging the battery in extreme temperatures. Optimal operating temperature is between 0°C and 40°C (32°F and 104°F). Do not charge a cold battery; allow it to warm up to room temperature first.


TROUBLESHOOTING

- **Battery Not Charging:**
 - Ensure all connections (main and balance leads) are secure.
 - Verify charger settings match battery specifications (3S, LiPo mode).
 - Check for any visible damage to the battery or charger.
- **Reduced Flight/Run Time:**
 - Battery may be aging or has been over-discharged.
 - Ensure battery is fully balance charged before use.
 - Check for high internal resistance (if your charger can measure it), which indicates battery degradation.
- **Battery Swelling:**
 - Immediately stop using and charging the battery.
 - Move the battery to a safe, non-flammable location.
 - Swelling indicates internal damage, often due to overcharging, over-discharging, or physical impact. The battery should be safely disposed of.

SPECIFICATIONS

Detailed specifications for the Tattu 11.1V 1800mAh 3S 45C LiPo Battery Pack:

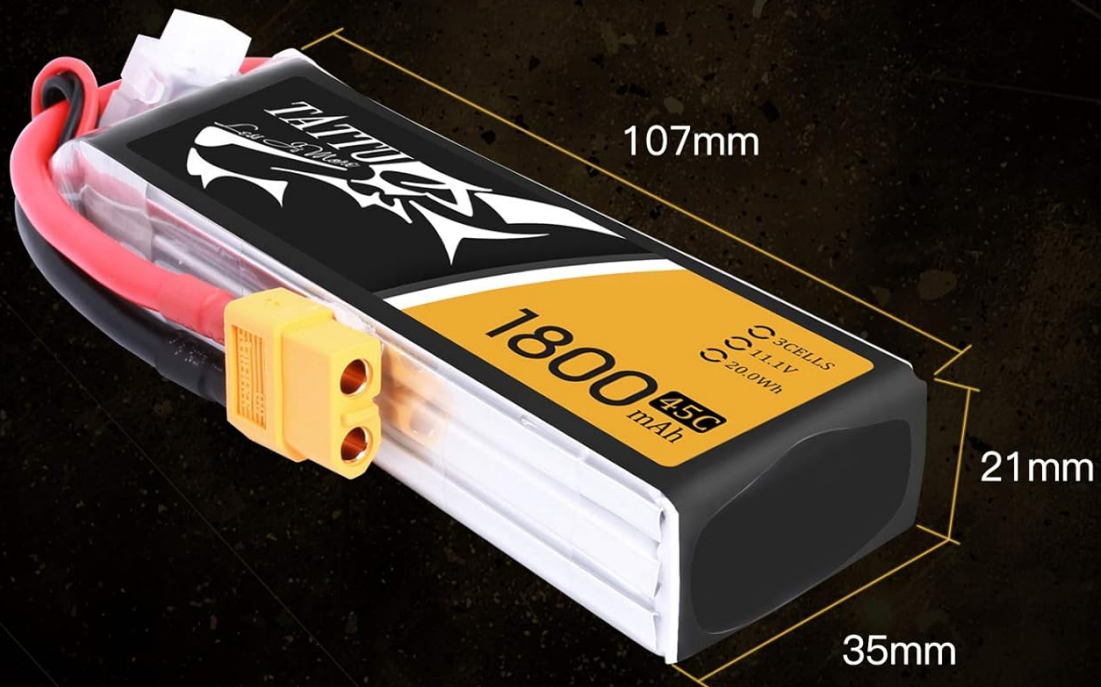
Parameter	Value
Battery Capacity	1800mAh
Battery Voltage	11.1V
Discharge Rate	45C
Cell Configuration	3S1P
Connector Type	XT60 Plug
Balancer Connector	JST-XH
Weight	158g (5.6 ounces)
Dimensions (L*W*H)	106 x 35.5 x 21mm (4.17 x 1.41 x 0.82 inches)



Battery Capacity	1800mAh
Battery Vottage	11.1V
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Cell Confgurtion	3S1P
Connector Type	XT60
Balancer Connector	JST-XHR
Weight	153g



Image: A graphic displaying the key specifications of the Tattu 1800mAh LiPo battery, including capacity, voltage, discharge rate, cell configuration, connector types, and weight.



Size will have $\pm 3\text{mm}$ error

Image: A visual representation of the Tattu LiPo battery's dimensions, showing its length (107mm), width (35mm), and height (21mm), with a note about a $\pm 3\text{mm}$ error tolerance.

WARRANTY AND SUPPORT

Tattu products are manufactured to high standards. For specific warranty information or technical support, please refer to the official Tattu website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

For more information, you may visit the [Tattu Store on Amazon](#).