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## TATTU 16000mAh 45.6V 25C HV 12S

# TATTU Pro 16000mAh 45.6V 25C HV 12S Lipo Smart Battery Pack User Manual

Model: 16000mAh 45.6V 25C HV 12S

## INTRODUCTION

Welcome to the user manual for the TATTU Pro 16000mAh 45.6V 25C HV 12S Lipo Smart Battery Pack. This manual provides essential information for the safe and efficient operation, maintenance, and storage of your battery. Please read it thoroughly before use to ensure optimal performance and safety.

## PRODUCT OVERVIEW

The TATTU Pro 12S High Voltage Battery is engineered for demanding professional applications such as agricultural plant protection, security mapping, and power inspection. It integrates advanced smart functionalities including data acquisition, security warnings, power calculation, and automatic cell equalization.



This image displays the TATTU Pro 16000mAh Lipo Smart Battery Pack, showing the main label with capacity, voltage, and discharge rate. The integrated handle and AS150U-F discharge plug are visible.



This image provides a side view of the TATTU Pro battery pack, highlighting the robust casing, the AS150U-F discharge plug connected via a flexible cable, and ventilation features.

## TECHNICAL SPECIFICATIONS

- **Minimum Capacity:** 16000mAh
- **Configuration:** 12S1P / 45.6V / 12 Cells
- **Discharge Rate:** 25C

- **Safe Discharge Voltage:** 3.35V/cell
- **Fast Charging:** 3C
- **Net Weight:** 4650g ( $\pm 20$ g)
- **Dimensions:** 224 mm (Length) x 163mm (Width) x 90mm (Height)
- **Discharge Plug:** AS150U-F
- **Communication Port:** CAN/SMBU (for data acquisition and host computer software)

## IMPORTANT SAFETY GUIDELINES

Lithium Polymer (LiPo) batteries require careful handling. Failure to follow these guidelines can result in fire, personal injury, or property damage. Always prioritize safety when handling LiPo batteries.

- **Charging:** Always use a compatible LiPo balance charger. Never leave charging batteries unattended. Charge in a fire-safe area, away from flammable materials.
- **Storage:** Store batteries in a cool, dry place, away from direct sunlight and flammable materials. Store at a recommended storage voltage (typically 3.8V-3.85V per cell).
- **Discharge:** Do not discharge below 3.35V per cell. Over-discharging can permanently damage the battery and pose a safety risk.
- **Physical Damage:** Do not puncture, drop, or expose the battery to excessive impact. If the battery is damaged, swollen, or leaking, discontinue use immediately and safely dispose of it.
- **Temperature:** Avoid extreme temperatures. Do not expose to temperatures above 60°C (140°F) or below 0°C (32°F).
- **Disposal:** Dispose of LiPo batteries responsibly according to local regulations. Never dispose of them in regular trash.

## SETUP AND INITIAL INSPECTION

1. **Unpacking:** Carefully remove the battery pack from its packaging.
2. **Visual Inspection:** Inspect the battery for any signs of physical damage, swelling, or leaks. Do not use if damaged.
3. **Charge Level Check:** Before first use, it is recommended to check the battery's voltage with a LiPo voltage checker to ensure it is at a safe storage voltage.
4. **First Charge:** Fully charge the battery using a compatible 12S LiPo balance charger. Ensure the charger settings match the battery specifications (45.6V, 16000mAh, 3C fast charge capability).

## OPERATING YOUR TATTU PRO BATTERY

### Charging

Use a dedicated LiPo balance charger compatible with 12S batteries. Connect the AS150U-F discharge plug and the balance lead to the charger. Set the charge current according to the battery's 3C fast charge capability (e.g.,  $3 \times 16A = 48A$  maximum, but always refer to your charger's capabilities and battery manufacturer's recommendations). Monitor the charging process closely.

### Discharging and Use

Connect the AS150U-F plug to your compatible device (e.g., drone). Ensure a secure connection. Monitor the battery voltage during operation. Stop use when the battery reaches the safe discharge voltage of 3.35V per cell to prevent over-discharge.

### Smart Features

The TATTU Pro battery includes an integrated smart system for data acquisition, security warnings, power calculation, and automatic cell equalization.

- Data Monitoring:** Connect the battery to a host computer via the CAN/SMBU communication port to access real-time status and historical data. This allows for monitoring parameters such as voltage, current, temperature, and cell balance.
- Warning System:** The battery provides warnings for abnormal states, including charging warnings and other abnormal state alarms, enhancing operational safety.

## MAINTENANCE AND LONG-TERM STORAGE

- Regular Inspection:** Periodically inspect the battery for any signs of wear, damage, or swelling.
- Cleaning:** Keep the battery and connectors clean and free from dust and debris.
- Storage Voltage:** For long-term storage, charge or discharge the battery to its storage voltage (approximately 3.8V-3.85V per cell).
- Storage Environment:** Store in a cool, dry, fire-safe location, away from direct sunlight, heat sources, and corrosive materials.
- Avoid Full Charge/Discharge Storage:** Do not store batteries fully charged or fully discharged for extended periods, as this can significantly degrade battery life and performance.

## TROUBLESHOOTING COMMON ISSUES

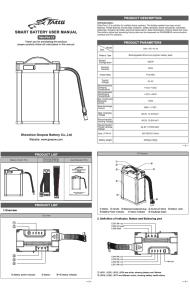
Issue	Possible Cause	Solution
Battery not charging	Incorrect charger settings, faulty charger, damaged battery, loose connection	Verify charger settings, try a different charger, inspect battery for damage, ensure connections are secure
Battery swelling	Overcharging, over-discharging, physical damage, internal short	Discontinue use immediately. Safely dispose of the battery according to local regulations. Do not attempt to charge or use a swollen battery.
Reduced run time	Battery aging, improper charging/storage, high discharge rate	Ensure proper charging and storage practices. Consider battery replacement if degradation is significant.
Smart features not working	Loose communication cable, software issue, battery fault	Check CAN/SMBU cable connection. Consult the host computer software manual. Contact support if issues persist.

## WARRANTY AND CUSTOMER SUPPORT

TATTU products are manufactured to high standards. For specific warranty information, technical support, or service inquiries, please refer to the official TATTU website or contact your authorized dealer. Keep your purchase receipt as proof of purchase.

**Online Resources:** For additional information and updates, visit the official TATTU store page: [TATTU Official Store](#)

## Related Documents - 16000mAh 45.6V 25C HV 12S

	<p><a href="#">Tattu R-line V6.0 FPV Racing Drone Battery: Performance Whitepaper</a></p> <p>Explore the advanced technologies behind the Tattu R-line V6.0 FPV racing drone battery, featuring next-gen nanocomposite materials, a 3D conductive network, and enhanced electrolyte for superior power, speed, and safety.</p>
	<p><a href="#">TATTU TA300 Battery Manual - Genspow GmbH</a></p> <p>Official user manual for the TATTU TA300 battery, providing detailed specifications, safety guidelines, usage instructions, and maintenance tips from Genspow GmbH.</p>
	<p><a href="#">Tattu Plus 1.0 Smart Battery User Manual</a></p> <p>User manual for the Tattu Plus 1.0 Smart Battery, detailing its features, parameters, product list, overview, indicator definitions, operation guides, and cautions.</p>
	<p><a href="#">TATTU TA3200 / TA3200HV Dual Channel Smart Charger User Guide</a></p> <p>Comprehensive user guide for the TATTU TA3200 / TA3200HV Dual Channel Smart Charger, covering safety instructions, product overview, parameters, operation, device settings, firmware upgrades, and after-sales service.</p>
	<p><a href="#">Tattu R-Line V6.0 FPV</a></p> <p>Tattu R-Line V6.0 FPV</p>
	<p><a href="#">Gens Ace &amp; Tattu LiPo Battery User Manual: Safety, Charging, and Operation Guide</a></p> <p>Detailed user manual for Gens Ace and Tattu LiPo batteries. Learn about product features, LED indicators, safe charging, discharging, storage, troubleshooting, and warranty information for RC hobby applications.</p>