

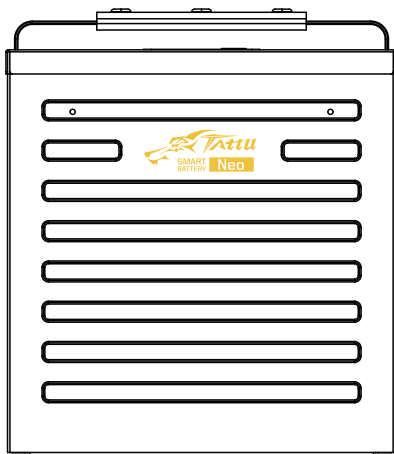
GREPOW 深圳市格瑞普智能电子有限公司			
产品型号	TANEO60K18S5Q9/ TANEO41K18S5Q9	版 本	A1
物料名称	说明书	单 位	MM
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印刷要求	黑白	材 质	

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智能电池使用说明书 Intelligent Battery User Manual



TATTU Neo

感谢您购买本产品，请严格遵守本手册的使用要求。

Thanks for purchasing the product, and please strictly follow the usage requirements in this manual.

深圳市格瑞普电池有限公司
SHENZHEN GREPOW BATTERY CO.LTD

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Disclaimer Agreement

Thanks for purchasing the GREPOW TATTU Neo product line. Before using this product, please read and follow all safety and compliance instructions provided in this manual and by TATTU Battery to prevent injury, damage to the product, or harm to surrounding property. Use of this product signifies that you have read, understood, and accepted all terms and conditions related to this document and the product. You agree to use the product only for legitimate purposes and assume full responsibility for its use and any resulting consequences. GREPOW disclaims all liability for any damage, injury, or legal responsibility arising from the direct or indirect use of this product. If you do not agree with these terms, please refrain from using the product and contact customer service for a return to the manufacturer.

Reading Instructions

This product uses the following terms to categorize and explain potential hazards that may arise from improper operation.



Caution: Failure to follow the instructions may result in property damage and minor injuries.



Warning: Non-compliance with the instructions may lead to property damage, serious accidents, and severe injuries.

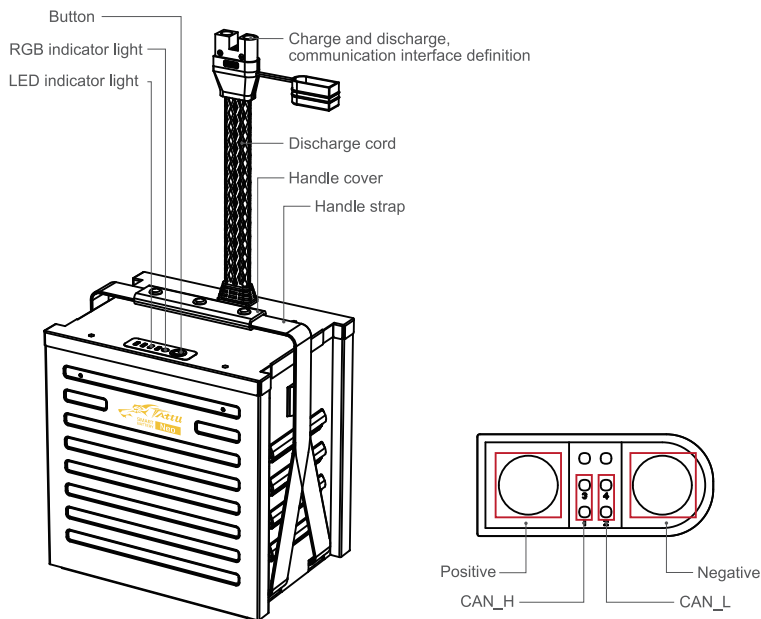
Warning

This product is sophisticated and needs time to familiarize oneself with it for safe use. It is essential to have the necessary professional knowledge before operating. Failure to follow proper safety procedures can result in product damage, property loss, or severe injury to oneself or others. Use by individuals under 18 years of age is strictly prohibited. Only use parts provided or recommended by the manufacturer, and strictly adhere to the manufacturer's guidelines for installation and use. This manual includes safety, operation, and maintenance instructions. Read all instructions and warnings carefully before assembly, setup, and use.



Overview

The TATTU NEO Smart Battery (referred to as the "Battery") features brand-new high-energy-density cells and an advanced battery management system. It is primarily used in fields such as logistics transportation. The system includes functions like data collection, safety alerts, current calculations, automatic balancing, charging reminders, abnormal state alarms, human-machine interaction, historical queries, and parameter configuration. It provides ample power for unmanned aerial systems.



Handle:

Use this handle to lift the Battery.

LED Indicator:

Indicate Battery SOC.

Status Indicator / RGB Light:

The light colors of green, yellow, white, red, blue, and cyan represent different battery states.

Power Button:

Pressing it briefly shows battery charge; a press less than 1S seconds will illuminate the 4 LEDs to indicate the current State of Charge (SOC), and they will turn off after 5 seconds.

Short press + long press 2S battery on. Be sure to install the anti-spark module on the aircraft or other terminals, otherwise the aircraft or other terminals may be damaged by sparking at the connector with the battery.

Power Interface + Communication Interface:

Connect to drone or charger, and ensure the plug is firmly inserted during operation.



Battery Features

The TATTU Neo smart drone battery comes with the following features:

Battery Indicator: The built-in indicator lights show the SOC with a press of the power button.

Intelligent Communication: Real-time monitoring of battery status, including voltage, charge level, and temperature, through the communication interface ensures flight safety.

Multi Warning: TATTU NEO battery is equipped with abnormal protection alarm functions such as under-voltage, over-voltage, low temperature, over-temperature, charging over-current, etc., to ensure the safety of the battery and the drone.

Log Recording: Automatically records battery logs for fault analysis and troubleshooting, with the data storage overwriting the oldest entries when full.

Automatic Balancing: The battery automatically balances cell voltages under specific conditions to extend its lifespan.

Intelligent Storage: Automatically discharges to a safe voltage after full charging to prevent damage from long-term storage, with a slight temperature increase during discharge being normal.

Cycle Count: Tracks the number of charge/discharge cycles to monitor battery health.

Fault Statistics: Compiles the number of battery faults and allows for detailed viewing through the APP.

Bluetooth Connectivity: Connects to the battery via the APP for data monitoring and wireless updates.

Software upgrade: Support Bluetooth online upgrade, or use our company's supporting host computer with a BD300 module for upgrade. Both upgrade methods require a short of pressing the battery button to wake up the battery for communication connection before upgrading.

Automatic Current Regulation: When using the TATTU smart industry charger, the battery BMS automatically provides optimized charging current recommendations to the charger based on the current temperature and charge status. The charger then executes a charging management strategy with appropriate current and full charge voltage to ensure battery safety. Note that this smart feature is exclusive to TATTU chargers and cannot be released with other brands.



Warning

- Please read and strictly follow the requirements on the battery surface sticker and in this manual before using the battery. Any consequences arising from non-compliant use are the responsibility of the user.
- Batteries with abnormal records due to improper use are not covered by the warranty.



Usage of Battery

After the battery is properly connected to the aircraft, short press and then long press the power button to turn on the battery to ensure that the battery log is recorded in real time to avoid missing data affecting the subsequent traceability.

Before using the battery, short press the button to check the battery SOC and ensure there are no external objects blocking the output port. Ensure the battery is properly connected to the drone before operation.

Do not use the battery near heat sources, such as inside a vehicle exposed to direct sunlight on a hot day, near a fire, or a heater.

Do not immerse the battery in water.

Do not use batteries that are swollen, leaking, or have damaged packaging. If any of these conditions occur, do not use the battery and contact the manufacturer for further handling.

Before installing the battery on the drone, confirm that the drone is equipped with an anti-spark module to prevent damage to the battery power interface from sparks.

Use the battery in an environment with a temperature between 10-45°C. High temperatures (above 50°C) can cause swelling and pose a risk of fire or explosion. Low temperatures (below 10°C) can significantly reduce battery performance, not meeting normal usage requirements. The battery can be used normally after returning to room temperature.

Do not use the battery in environments with strong static electricity or magnetic fields, as this may cause abnormalities in the battery protection board, leading to serious malfunctions in the drone.

Do not disassemble or puncture the battery with sharp objects, as this can cause the battery to catch fire or explode. The manufacturer will not warrant batteries that have been disassembled.

Do not assemble batteries on your own. Reassembling or recombining battery cells after disassembly is extremely dangerous and can lead to short circuits, combustion, and personal safety hazards.

The liquid inside the battery is highly corrosive. If it leaks, stay away. If the liquid comes into contact with skin or eyes, rinse immediately with water and seek medical attention.

If the battery is deformed or damaged from a fall or impact, do not use it again.

If the battery falls into water during flight or otherwise, remove it immediately and place it in a safe, open area away from people until it is completely dry. Contact the manufacturer for further instructions. In case of a fire, use water, water mist, sand, fire blankets, dry powder, or CO2 extinguishers.

Do not place the battery in a microwave or pressure cooker.

Do not cause a short circuit with wires or other metal objects.

Avoid striking the battery or placing heavy objects on it or the charger.

Clean the battery contacts with a dry cloth if they are dirty. Poor contact can cause energy loss or charging issues.

Avoid flying when the battery charge is below 15% to prevent damage or flight accidents.

Do not reverse the battery terminals. Abnormal charging can lead to overcharging, explosion, or fire. Use only genuine batteries and contact the manufacturer for replacements. The company is not responsible for accidents caused by counterfeit batteries.

Always hold the battery handle when picking up the battery.

Ensure the surface is flat and free of sharp objects when placing the battery.

Batteries are hazardous. Do not stack items on them or use them as a seat, as this can damage the battery and cause danger.

Handle the heavy battery with care, avoiding rough handling or dropping, to prevent damage. If the battery tips over and is damaged, place it in an open area away from flammable materials and people. Wait for half an hour, then soak the battery in water for at least 48 hours to ensure it is completely discharged before disposal.



Caution

- **Check sufficient battery charge before each flight.**
- **Land immediately and replace the battery if the drone triggers a low battery warning.**
- **Preheat the battery above 10°C before flying in cold conditions; 20°C is even better.**



Key Functions

Press the power button briefly to check battery status via the indicator light.

Light definition		
State	Color	Description
Normal State	Green 	Normal State.
Battery protection mode	Yellow 	Battery use is automatically prohibited. Please check TATTU APP to find out the reason, which will be helpful to check battery status and restore when the conditions are met.
Battery warning mode	White 	The battery is at risk and not recommended for use. Please check TATTU APP to find out the reason, which will be helpful to check battery status and restore it when the conditions are met.
Battery failure	Red 	The battery is unusable. Please contact TATTU after-sales and maintenance.
Battery self-discharge and balance status	Blue 	The battery can be used normally.
Battery balancing mode	Cyan 	The battery can be used normally.



SOC/SOH Display

The BMS is equipped with 4 white LEDs, which can display battery charge levels in 8 stages. Indicates:

- Solid light on;
- Indicates light off;
- Indicates flashing light.

Capacity indication in stationary mode SOC and discharge mode:

Current Capacity	LED1	LED2	LED3	LED4
0%~12%	○	○	○	○
13%~24%	●	○	○	○
25%~37%	●	○	○	○
38%~49%	●	●	○	○
50%~62%	●	●	○	○
63%~74%	●	●	●	○
75%~87%	●	●	●	○
88%~100%	●	●	●	●

Charge mode battery level indication (with blinking lights in a marquee pattern):

Current Capacity	LED1	LED2	LED3	LED4
0%~12%	○	○	○	○
13%~37%	●	○	○	○
38%~62%	●	●	○	○
63%~94%	●	●	●	○
95%~100%	●	●	●	●

Note: In non-sleep mode, the indicator light stays on for 3 minutes after full charge, then all lights go off. In sleep mode, all charge indicator lights go off after full charge.

Remaining Service Life State of Health (SOH) Indicator:

SOH	LED1	LED2	LED3	LED4
88%~100%	●	●	●	●
75%~87%	●	●	●	○
63%~74%	●	●	●	○
50%~62%	●	●	○	○
38%~49%	●	●	○	○
25%~37%	●	○	○	○
13%~24%	●	○	○	○
0%~12%	○			



Charging

Use only the charger recommended by the manufacturer to charge the battery. We will not be responsible for any consequences resulting from the use of an unsuitable charger.

Place the battery and charging equipment on a non-flammable surface like concrete when charging. Attend to the charging process to prevent accidents. For safety, maintain a distance greater than 30cm between batteries to avoid charger or battery failures, or even fires, caused by concentrated heat.

After drone flight, the battery is hot. It is recommended to charge when the battery temperature drops below 45°C to avoid high-temperature warnings during charging. The battery's charging temperature range is 5°C- 50°C, with an ideal range of 15°C- 45°C, which can significantly extend the battery's lifespan. Charging within the specified temperature range can prolong battery life.

Do not charge the battery near heat sources, such as in direct sunlight, inside a hot vehicle, near a fire, or a heater.

Regularly inspect battery connectors and plugs. Do not clean charging equipment with alcohol or other flammable solvents. Do not use damaged charging equipment. Ensure the battery is dry before charging.



Battery Storage and Transportation

After each use, once disconnected from the drone, inspect the battery's power interface for debris and clean it promptly if necessary.

Transport batteries using the original packaging inserts and boxes to prevent damage from impacts that could cause danger.

Store batteries out of reach of children. Seek immediate medical help if a child accidentally ingests any parts.

If the battery indicates low charge after use, store it charged to 40%-60%. Storing for long periods at lower charges may damage the battery.

Do not store batteries near heat sources, such as direct sunlight, inside a hot vehicle, near a fire, or a heater.

Keep the environment for storing batteries dry. Avoid placing batteries in water or places where water may leak.

Do not store or transport batteries with eyeglasses, watches, metal necklaces, hairpins, or other metal objects.

Do not transport batteries that are damaged or have more than 30% charge.

Ensure the surface is flat when placing batteries to prevent punctures from sharp objects on the battery bottom.

For long-term (over 3 months) storage, keep batteries in an environment with a temperature between -20°C and 35°C, and consider using a dedicated explosion-proof box.

Avoid storing batteries completely discharged for extended periods to prevent over-discharge, which can damage the cells and make them unusable.

If a battery with severely low charge is left idle for too long, it will enter deep sleep mode. To awaken it, perform a charge-discharge cycle.

Disconnect the battery from the drone if it needs to be stored for an extended period.



Disposal

Soak the battery in water for at least 48 hours to ensure it is completely discharged before placing it in a designated battery recycling container. Batteries are hazardous materials and must not be disposed of in regular trash bins. Follow local regulations for battery recycling and disposal.



Maintenance

Do not store batteries in environments where the temperature exceeds 45°C or falls below -20°C.

Long-term battery inactivity can affect its performance.

Recharge and discharge the battery every two months to maintain its activity.

Batteries not maintained (charged and discharged) for over three months will not be covered by warranty.



Technical Specifications

Product Specifications		
Battery Type	Rechargeable Lithium-ion Polymer Battery Pack	
Type	TANEO60K18S5Q9	TANEO41K18S5Q9
S/P	18S2P	18S2P
Capacity	60000mAh	41000mAh
Energy	3996Wh	2804.4Wh
Maximum Continuous Discharge Current	120A	180A
Peak Discharge Current	180A (<3S)	240A (<3S)
Voltage	66.6V	68.4V
Charging Temperature Range	5°C~50°C	5°C~65°C
Discharge Temperature Range	0°C~60°C	0°C~60°C
Charge Voltage Limit	75.6 V (4.2V/cell)	77.4V (4.3V/cell)
Recommended Alarm Voltage	55.8V (3.1V/cell)	62.1V(3.45V/cell)
Recommended Landing Voltage	54.9V (3.05V/cell)	60.3V(3.35 V/cell)
Dimension(T*W*H)	186*245*259mm	186*245*259mm
Weight	16300±300g	16300±300g
Warranty Usage Time Limit	500 cycles or 12 months (whichever comes first)	500 cycles or 12 months (whichever comes first)
Compatible Charger	TA7200 pro/TA9000 Pro	TA7200 pro/TA9000 Pro
Charging Reference Time	≈90min(25°C)	≈30min(25°C)

Charging time is measured at an ambient temperature of 25°C and is for reference only.



For technical support and the latest information



Technical Support



TATTU APP Download Methods

1. For Android version, please scan the code to download:



Scan the code to download APP

2. For iOS, search for "TATTU" in the App Store to download.

If there are updates internally, please contact the supplier to obtain the latest version of the manual without further notice.

If there is any questions or suggestions about the manual, please contact us through:

Official Email: info@gensace.com

Phone Number: 0755-88376378

Official Public Account: Grepow

WeChat Official Account: GrepowBty

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免责声明

感谢您购买格瑞普（GREPOW）TATTU Neo 系列产品。使用本产品之前，请仔细阅读并遵循本文及 TATTU 电池提供的所有安全与合规操作指引，否则可能会给您和周围的人带来伤害，损坏本产品或者周围物品。一旦使用本产品，即视为您已经仔细阅读本文档，理解、认可和接受本文档及本产品所有相关文档的全部条款和内容。您承诺仅处于正当目的使用本产品。您承诺对使用本产品以及可能带来的后果负全部责任。格瑞普（GREPOW）对于直接或间接使用本产品而造成的损坏、伤害以及任何法律责任不予负责。如您不认可本条款的内容，请不要使用此款产品，并联系售后将产品退回厂商。

阅读提示

本产品使用以下词条对因操作不当可能带来的潜在危险加以分级说明！



注意：如果不遵循说明进行操作，可能会导致财产损失和轻微伤害。



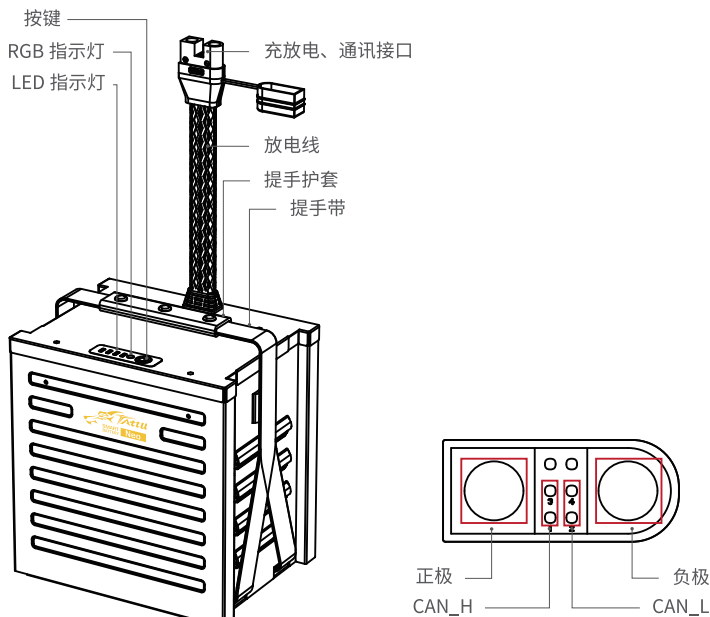
警告：如果不遵循说明进行操作，可能会导致财产损失、重大事故和严重伤害。

警告

本产品较为复杂，需要经过一段时间熟悉后才能安全使用，并且需要具备一定的专业知识后才能进行操作。如果没有强烈的安全意识，不恰当的操作可能会导致产品损坏和财产损失，甚至对自身或他人造成严重伤害。本产品严禁十八周岁以下人士使用。切勿使用非原厂提供或建议的部件，必须严格遵守原厂的指引安装和使用产品。本说明包含安全、操作和维护等说明。在进行组装、设置和使用之前务必仔细阅读本说明中的所有说明和警告。

简介

TATTU NEO 智能电池（以下简称电池）采用全新的高能量密度电芯和先进的电池管理系统。主要用于物流运输等领域。全系统包含数据采集、安全提醒、电流计算、自动均衡、充电提醒、异常状态报警、人机交互、历史查询、参数配置等功能，能够为无人机系统提供充足电力。



提手

可通过此提手提起电池。

LED 指示灯

可指示电池电量。

状态指示灯 /RGB 灯

指示灯颜色分别为绿色、黄色、白色、红色、蓝色、青色，用于显示电池状态。

电源按钮

短按可查看电池电量，按下时长小于 1S 一次，4 个电量指示灯可指示电池当前电量 (SOC)，5S 后熄灭。

短按 + 长按 2S 电池开机，飞机或其他使用端务必安装防打火模块，否则可能导致飞机或其他使用端与电池接口打火损坏。

电源接口 + 通讯接口

连接无人机或充电器，作业时务必确认插头已插紧。



电池功能

TATTU NEO 智能无人机电池具有以下功能：

电量显示：电池自带指示灯，按下电源键即可查看剩余电量。

智能通讯：通过通讯接口，可以实时监控电池状态，包括电压、电量、温度等，确保飞行安全。

多重告警：TATTU NEO 电池具备欠压、过压、低温、过温、充电过流等异常告警功能，保障电池和无人机安全。

日志记录：自动记录电池日志，便于故障分析和排查，数据存储器空间满后，会循环覆盖最早的数据记录。

自动均衡：电池在特定条件下会自动平衡电芯电压，延长电池寿命。

智能存储：满电后自动放电至安全电压，防止长时间存储损害电池。放电过程电池温度可能会略微升高，属于正常现象。

7. **循环统计：**记录电池充放电次数，了解电池使用状况。
8. **故障统计：**统计电池故障次数，并通过 APP 查看详细信息。
9. **蓝牙连接：**通过 APP 连接电池，实现数据监控和无线升级等操作。
10. **软件升级：**支持蓝牙在线升级，或使用我司配套的上位机搭配 BD300 模块进行升级，两种升级方式都需要先短按电池按键，将电池唤醒进行通讯连接后才能升级。
11. **自动调节电流：**使用 TATTU 智能行业充电器时，电池 BMS 将基于当前电池的温度与电量状态，自动向充电器提供最优化的充电电流建议。充电器会根据这些参数，以适当的充电电流和满电电压执行充电管理策略，从而确保电池的安全性。需特别注意的是，此智能功能仅为 TATTU 充电器所独有，无法在其他品牌充电器上实现。



警告

- 使用电池前请详细阅读并严格遵守电池表面贴纸上及本说明书中的要求。未按要求使用造成的后果由用户承担。
- 对于非正常使用导致产生电池异常记录的电池不予保修。



使用电池

电池正确连接至飞行器后，先短按再长按电源按钮开启电池，以确保电池日志实时记录，避免数据缺失影响后续追溯。

使用电池前请短按按键检查电池电量，并且确认电池输出端口无异物堵塞。电池正确连接至无人机后再进行作业。

禁止在靠近热源的地方使用电池，比如长时间阳光暴晒热天的车内、火源或加热炉。

请勿将电池浸入水中。

严禁使用鼓包的、漏液的、包装破损的电池。如有以上情况发生，请不要使用电池并联系厂商做进一步处理。

在将电池安装在无人机前，请确认无人机上安装了防打火模块，避免电池因火花损坏电池电源接口。

电池应在环境温度为 10-45°C 之间使用。温度过高（高于 50°C），有胀气鼓包的风险，可能会引起电池着火，甚至爆炸。温度过低（低于 10°C），电池性能将会严重降低，不能满足正常使用要求。恢复常温后可以正常使用。

禁止在强静电或者磁场环境中使用电池。否则可能导致电池保护板异常，从而导致无人机发生严重故障。

禁止以任何方式拆解或使用尖利物体刺破电池。否则将会引起电池起火甚至爆炸。私自拆解后的电池厂商将不予以保修。

禁止私自组装电池。将电池电芯拆开后重组、或者将拆开后的电芯与另外一组电池重组的行为的是极其危险的，容易引起电池短路、燃烧，危及人身安全。

电池内部液体有强腐蚀性，如有泄露，请远离。如果内部液体溅射到人体皮肤或者眼睛，请立即用清水冲洗干净，并立即就医。

电池如从无人机机摔落或受外力撞击导致电池变形、破损，不得再次使用。

如果电池在无人机飞行过程中或其他情况下意外坠入水中，请立即拔出电池并将其置于安全的开阔区域，这时应远离电池直至电池完全晾干。同时联系厂商进行确认处理。若电池发生起火，推荐使用以下灭火器材进行灭火：水或水雾、沙、灭火毯、干粉、二氧化碳灭火器。

请勿将电池放置于微波炉或压力锅中。

禁止用导线或其他金属物体致使电池正负极短路。

请勿撞击电池。请勿在电池或充电设备上放置重物。

如果电池接口有污物，请使用干布擦干净。否则会造成接触不良，从而引起能量损耗或无法充电。

请避免在电池电量低于 15% 的情况下继续飞行，否则将会造成电池损坏或者引发飞行事故。

禁止反接电池正负极，否则电池被异常充电可能会导致过充、爆炸或起火。严禁使用盗版电池，如需更换，请联系厂商。因使用盗版电池而引发的电池事故、飞行事故，本公司概不负责。

拿取电池时，请务必握住电池提手。

放置电池时需要确认电池地面平整，防止尖锐物品戳坏电池底部。

电池属于危险物品。禁止在电池上堆放其他物品，或将电池以及含有电池的包装当坐垫使用，否则可能导致电池损坏，甚至发生危险。

电池较重，请小心放置，轻拿轻放，避免重掷，以防电池倾倒，导致电池侧面损坏。若发生电池倾倒并损坏的情况，请立即将电池放置于开阔区域，远离可燃物及人群。等待半小时后，将电池于水中浸泡 48 小时以上。确保电池电量已完全耗尽后方可进行报废处理。



注意

- 每次飞行前，请确保电池有足够的电量。
- 若无人机进入低电量报警模式，应尽快降落并停止飞行，更换电池。
- 在低温环境下，建议在飞行前将电池预热至 10°C 以上，预热至 20°C 更佳。



按键功能

短按电源按键后可通过状态指示灯的显示方式判断电池状态。

RGB 灯定义

状态	颜色	说明
正常状态	绿色 	正常状态。
电池保护模式	黄色 	电池自动禁用，查看 APP 了解原因，满足条件后可恢复。
电池告警模式	白色 	电池存在风险，不建议使用，查看 APP 了解原因，满足条件后可恢复。
电池永久失效	红色 	电池不可用，请联系 TATTU 售后分析和维护。
电池自放电与均衡状态	蓝色 	电池可正常使用。
电池均衡模式	青色 	电池可正常使用。



SOC/SOH显示

BMS 共设计了 4 个白色 LED，可分 8 个等级显示电池电量。

说明：● 表示常亮； ○ 表示熄灭； ⊙ 表示闪烁。

静止模式 SOC 和放电模式下的电量指示：

当前容量	LED1	LED2	LED3	LED4
0%~12%	⊙	○	○	○
13%~24%	●	○	○	○
25%~37%	●	⊙	○	○
38%~49%	●	●	○	○
50%~62%	●	●	⊙	○
63%~74%	●	●	●	○
75%~87%	●	●	●	⊙
88%~100%	●	●	●	●

充电模式下的电量指示（闪烁的灯为跑马灯的形式）：

当前容量	LED1	LED2	LED3	LED4
0%~12%	⦿	⦿	⦿	⦿
13%~37%	●	⦿	⦿	⦿
38%~62%	●	●	⦿	⦿
63%~94%	●	●	●	⦿
95%~100%	●	●	●	●

注：非休眠模式下充电，满电后指示灯亮 3 分钟后全部熄灭。

休眠模式下充电，满电后指示灯保持熄灭。

剩余使用寿命 SOH 指示：

SOH	LED1	LED2	LED3	LED4
88%~100%	●	●	●	●
75%~87%	●	●	●	⦿
63%~74%	●	●	●	○
50%~62%	●	●	⦿	○
38%~49%	●	●	○	○
25%~37%	●	⦿	○	○
13%~24%	●	○	○	○
0%~12%	⦿			



充 电

电池必须使用厂商推荐的充电器为电池充电。对于因使用不符合要求的充电器进行充电所造成的一切后果，将不予负责。

充电时请将电池和充电设备放置在水泥地等周围无易燃、易爆、可燃物的地面。电池充电时请在场看管，以防止意外发生。为保证充电安全，充电时，电池与电池之间的距离需大于 30cm，以免因为发热集中而导致的充电器或电池故障，甚至造成火灾等严重后果。

无人机飞行结束后，电池处于高温状态，建议待电池降至 45℃后再进行充电，否则可能会出现充电高温告警的情况。电池可充电环境温度为 5℃-50℃，理想的充电环境温度为 15℃~45℃，可大幅延长电池使用寿命。在规定的环境内按要求充电可延长电池的使用寿命。

4. 禁止靠近热源的地方对电池进行充电，比如阳光直射处或热天的车内、火源或者加热炉。
5. 经常检查电池接口、插头等各个部件。切勿使用酒精或者其他可燃剂清洁充电设备。切勿使用已有损坏的充电设备。
6. 确保电池在干燥状态下进行充电。



电池存储与运输

每次使用完毕，断开无人机与电池的连接后，请检查电池电源接口是否有杂物，若有，请及时清理。

运输电池时，请使用原厂搭配的包装内托以及包装箱进行运输，否则可能因为电池碰撞照成危险。

请将电池存放在儿童接触不到的地方。如果儿童不小心吞咽零部件，应立即寻求医疗救助。如果飞行结束后电池提示低电量，需充电到 40%-60% 存放。否则长时间存放可能导致电池损坏。

禁止将电池放在靠近热源的地方，比如阳光直射或者热天的车内、火源或加热炉。

存放电池的环境应保持干燥。请勿将电池至于水中或者可能会漏水的地方。

禁止将电池与眼镜、手表、金属项链、发夹或者其他金属物体一起贮存或运输。

切勿运输有破损或电池电量高于 30% 的电池。

放置电池时需要确认地面平整，防止尖锐物品戳坏电池底部。

若长期（超过 3 个月）存储电池，则必须置于温度为 -20°C ~ 35°C 的环境中，并建议使用专用防爆箱进行存储。

切勿将电池彻底放完后长时间存储，以避免电池进入过放状态，造成电芯损坏，将无法恢复使用。

若电池电量严重不足且闲置时间过长，则电池将进入深度睡眠模式，若需要将电池从深度睡眠中唤醒，需要对电池进行一次充放电。

若需要长期存放则需将电池与无人飞机的连接断开。



废弃

务必将电池于水中浸泡 48 小时以上，确保电池已经彻底放充电后，才将电池至于特定的电池回收箱中。电池是危险化学品，严禁废置于普通垃圾箱。相关细节，请遵循当地电池回收和弃置的法律法规。



保养

切勿将电池存储在室温超过 45°C 或者低于 -20°C 的环境下。

若长期闲置电池，将会对其性能造成影响。

每隔 2 个月左右重新充放电一次以保持电池活性。

超过 3 个月未进行维护（充放电）的电池将不予以保修。



技术参数

产品参数		
电池类型	可充电锂离子聚合物电池组	
型号	TANEO60K18S5Q9	TANEO41K18S5Q9
电池串并数	18S2P	18S2P
标称容量	60000mAh	41000mAh
能量	3996Wh	2804.4Wh
最大持续放电电流	120A	180A
峰值放电电流	180A (<3S)	240A (<3S)
标称电压	66.6V	68.4V
充电环境温度	5°C~50°C	5°C~65°C
放电环境温度	0°C~60°C	0°C~60°C
充电上限电压	75.6 V (4.2V/cell)	77.4V (4.3V/cell)
建议报警电压	55.8V (3.1V/cell)	62.1V(3.45V/cell)

产品参数		
建议迫降电压	54.9V (3.05V/cell)	60.3V(3.35 V/cell)
外围尺寸	186*245*259mm	186*245*259mm
电池重量	16300±300g	16300±300g
保修使用时间限制	500 次循环或 12 个月 (以先到者为准)	500 次循环或 12 个月 (以先到者为准)
适配充电器	TA7200 pro/TA9000 Pro	TA7200 pro/TA9000 Pro
充电参考时间	≈90min (25°C)	≈30min (25°C)

充电时间为温度 25°C 的实验环境下测得，仅供参考。



智能电池手机APP下载方式

1. 安卓版请扫码下载

2. IOS 版本在应用商店搜索“TATTU”下载。



内部如有更新，您可联系供应商获取最新版本说明书，恕不另行通知。

如果您对说明书有任何疑问或建议，请联系我们：

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