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Technology Support



Social Media



Drone Battery & Charger
Integration Solution Provider

DRONE BATTERY & CHARGER INTEGRATION



LIPO BATTERY | LIHV BATTERY
G-TECH BATTERY | SMART BATTERY
SMART CHARGER | CUSTOMIZED SOLUTION

CONTENTS

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1998

Founded

200,000 m²

Production Area

2,000+

Employees

200+

R&D Engineers

3+3

3 Production Bases

3 International Sales & Marketing Offices

About Grepow

Shenzhen Grepow Battery Co., Ltd.(Abbr. Grepow) is a 25 years old battery and charging solution developer and manufacturer with headquarter in China and subsidiaries in USA and in Germany respectively. Grepow focuses on providing high performance NIMH battery and high discharge rate Lipo battery initially. With the changeable market requirements and products expansion, Grepow has constantly dedicated in developing battery-related products and gradually pulling smart batteries, shaped batteries, intelligent chargers, versatile Jumpstarters into product lineup. Grepow also has created own brands of Tattu for Drone batteries and chargers, Gens ace for RC hobby products and Lokithor for Jumpstarters. Besides of self-created brands, another strong capability of Grepow is the innovation and integration of products, which enables Grepow to provide unique ODM and OEM service.

About Tattu

With the years technical support and industry experience of Grepow, Grepow innovatively created Tattu to provide professional batteries and chargers for drone industry. Tattu is committed to providing both professional users and enthusiasts of drones with a more efficient and safer flying experience, therefore Tattu has not only concentrated on upgrading more Tattu soft packs with newly developed NMC811 and NMC523 cell formula for more industrial drone/UAV applications, but also has invested more in developing BMS and structural design to successfully iterate Tattu Smart batteries from Tattu plus 6S1P batteries to latest Tattu 4.0 Smart 18S1P compact batteries. The over years experience accumulation on the development of smart BMS also helps Tattu to release smart chargers and eventually drive Tattu to be a integrated batteries&chargers innovator and provider.

COMPANY VALUES



Mission 01

To provide advanced rechargeable battery solutions and reliable charging solutions to our unique clients and become the go-to manufacturer of battery and charger.

To create an empowering platform for employees, fostering innovation and expertise in the high-tech sector.

To drive continuous profit and benefits through pioneering developments in drone energy systems.

To take on greater societal responsibilities, contributing to a sustainable and technologically advanced future.



Vision 02

To instill a sense of achievement and happiness in everyone connected with our brand, striving to be a leader and a respected entity in the drone battery industry and beyond.



Core Values 03

- Equality and Respect
- Gratitude and Integrity
- Team and Responsibility
- Legacy and Innovation



SPECIAL ADVANTAGES

01

NMC811 Cells **NMC811**

- A** High Energy Density up to 350Wh/Kg
- B** Over 1000 Times Super Long Cycle life
- C** Safe Discharge to 2.75V/Cell
- D** Extremely Light Weight



LiHV High Voltage Cells

- A** 4.35V-4.45V HV Cell
- B** High Energy Density up to 290Wh/Kg
- C** Fast Charging up to 5C
- D** High and Stable Discharge Platform

02

SPECIAL ADVANTAGES

High C Rate Cells **HC**

- A** Ability to Achieve 150C Pulse, 50C Continuous Discharge, and 5C Fast Charging
- B** High Performance in Power, Discharge, and Life Cycles
- C** Customizable Shape and Capacity



04



FC Fast Charging Cells

- A** 2C to 5C Charging
- B** Safe and Reliable
- C** Stable Charging Temperature
- D** Long-lasting and Durable

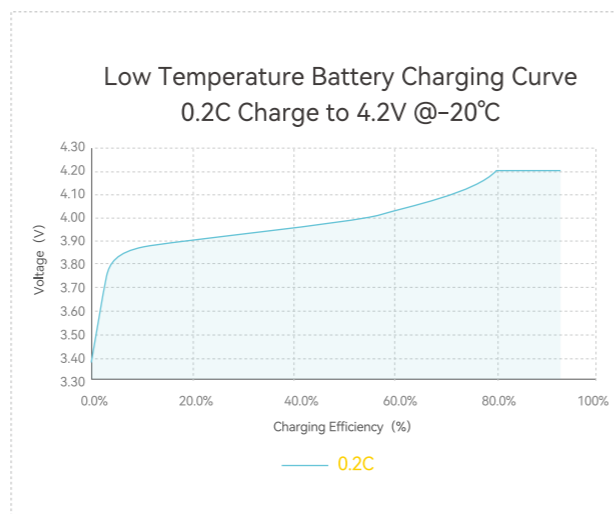
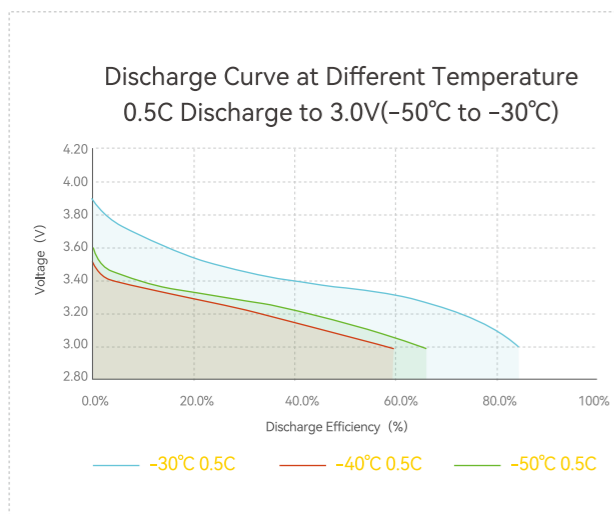
03

SPECIAL ADVANTAGES

05

Low Temperature Cells **LT**

- A** Wide Working Temperature Range: -40°C to 50°C
- B** 80% Discharge Capacity at 0.2C Under -40°C Environment
- C** 85% Capacity Retention Rate at 0.5C Charge and Discharge in -30°C
- D** Safe and Reliable with Various Certifications: UL/CE/UN

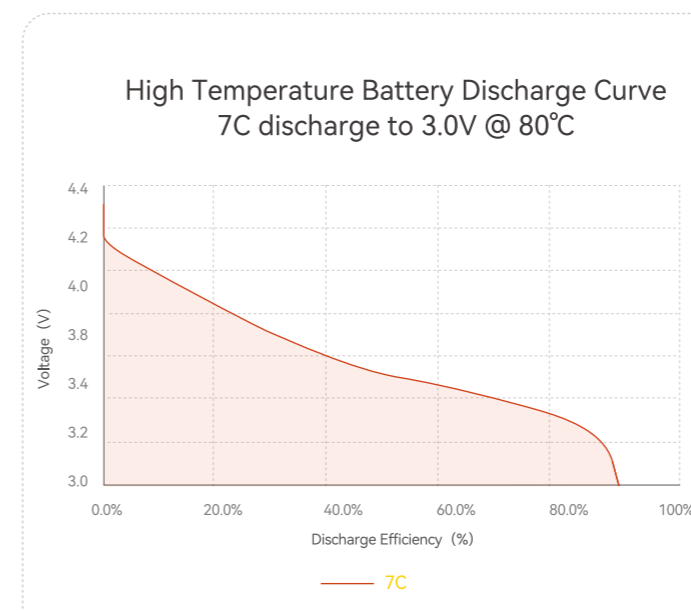


SPECIAL ADVANTAGES

06

High Temperature Cells **HT**

- A** Wide Working Temperature Range: -20°C to 80°C
- B** 90% Discharge Capacity at 7C in 80°C Environment
- C** 85% Capacity Retention Rate at 0.5C Charge and Discharge in 80°C
- D** Certifications: UL/CE/UN
- E** Safe and Reliable



ONE-STOP POWER SOLUTION PROVIDER FOR DRONE



- Agricultural Spraying Drone
- Photography Drone
- Delivery Drone
- Inspection Drone
- Mapping and Surveying Drone
- Drone Light Show
- Firefighting Drone
- eVTOL
- Soccer Drone

PRODUCT CENTER G-TECH ECO



Brand New G-Tech Technology

A Built-in Smart Chip

A built-in smart chip in the balance connector enables intelligent interconnection and communication between the G-Tech battery and smart charger.

B Plug and Play

G-Tech eco supports plug-and-play between G-Tech charger and G-Tech battery, maximizing the user's experience with great convenience. Once the charger and battery are connected, charging will automatically start as soon as the charger countdown ends.

C Smart Charging

Once the G-Tech charger and G-Tech battery are connected, battery parameters will be automatically recognized and configured. All information such as battery cycles, individual cell voltage and capacity, etc. will be displayed on charger. The charger will optimize the charging parameters to promote safe and long battery cycle life.

Grepow designs and manufactures a complete set of intelligent charging solutions, including the "G-Tech battery and intelligent charger solution". G-Tech has our patented design technology compatible with more than 99% of the model chargers and batteries on the market today.

Compared with the traditional charging methods, G-Tech intelligent charging easily achieves plug and play charging operation and avoids traditional charging setting required. What's most, G-Tech technology consumes ZERO power consumption and then maintain the lifetimes of battery packs.



PRODUCT CENTER

SOFT PACK SERIES

HIGH DISCHARGE RATE LIPO SOLUTION

- A** High Energy Density up to 210Wh/Kg
- B** Support 1C Charging Rate
- C** Safe Discharge to 3.6V/Cell
- D** Suit for Heavy Payload Multirotor Drone
- E** Such as Aerial Photoing, Agriculture, Inspection
- F** Support LED Capacity Display



Battery Specifications

| No. | Battery Type | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|---------------|--------------------------------|-----------------|---------------|
| 1 | Standard Lipo | Tattu 30C 16000mAh 22.2V 6S1P | 192x77x66mm | 2000g |
| 2 | Standard Lipo | Tattu 30C 22000mAh 22.2V 6S1P | 206x91x61mm | 2460g |
| 3 | Standard Lipo | Tattu 30C 10000mah 44.4V 12S1P | 182x67x115mm | 2800g |
| 4 | Standard Lipo | Tattu 30C 16000mAh 44.4V 12S1P | 191x78x130mm | 4000g |
| 5 | Standard Lipo | Tattu 30C 22000mAh 44.4V 12S1P | 206x93x119mm | 4650g |
| 6 | Standard Lipo | Tattu 30C 16000mAh 51.8V 14S1P | 191x78x151mm | 4820g |
| 7 | Standard Lipo | Tattu 30C 22000mAh 51.8V 14S1P | 206x93x139mm | 5600g |

02

LCO LIHV BATTERY SOLUTION

- A** High Energy Density up to 240Wh/kg
- B** High Voltage 4.35V/Cell
- C** Support 1C Charging Rate
- E** Safe Discharge to 3.6V/Cell
- F** Suit for Long Endurance Mapping Mission



Battery Specifications

| No. | Battery Type | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|--------------|-----------------------------------|-----------------|---------------|
| 1 | LCO LiHV | Tattu 20C 4350mAh HV 22.8V 6S1P | 133x56x41mm | 590g |
| 2 | LCO LiHV | Tattu 10C 6000mAh HV 22.8V 6S1P | 152x62x41mm | 720g |
| 3 | LCO LiHV | Tattu 10C 8000mAh HV 22.8V 6S1P | 177x67x47mm | 1030g |
| 4 | LCO LiHV | Tattu 25C 11000mAh HV 22.8V 6S1P | 176x65x56mm | 1350g |
| 5 | LCO LiHV | Tattu 15C 17000mAh HV 22.8V 6S1P | 194x77x62mm | 1847g |
| 6 | LCO LiHV | Tattu 25C 23000mAh HV 22.8V 6S1P | 208x90x63mm | 2473g |
| 7 | LCO LiHV | Tattu 10C 25000mAh HV 22.8V 6S1P | 207x92x63mm | 2525g |
| 8 | LCO LiHV | Tattu 25C 32000mAh HV 22.8V 6S1P | 216x125x61mm | 3494g |
| 9 | LCO LiHV | Tattu 25C 40000mAh HV 22.8V 6S1P | 261x124x64mm | 4292g |
| 10 | LCO LiHV | Tattu 10C 25000mAh HV 45.6V 12S1P | 206x93x128mm | 5000g |
| 11 | LCO LiHV | Tattu 25C 40000mAh HV 45.6V 12S1P | 256x123x119mm | 7950g |
| 12 | LCO LiHV | Tattu 25C 32000mAh HV 53.2V 14S1P | 216x123x123mm | 7750g |
| 13 | LCO LiHV | Tattu 25C 40000mAh HV 53.2V 14S1P | 256x123x139mm | 9250g |

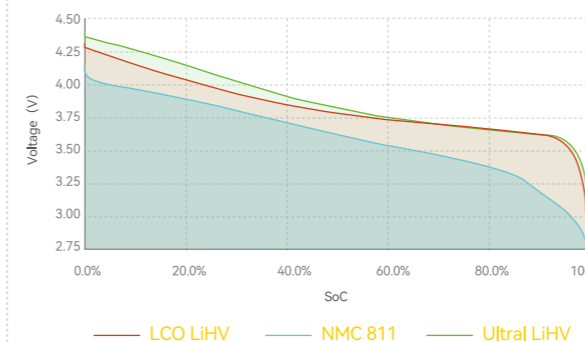
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NMC811 Lipo Battery Solution

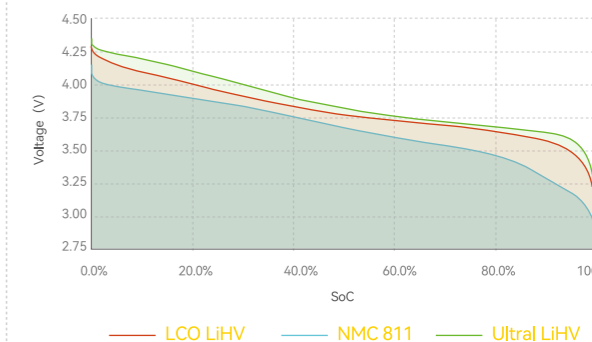
- A** High Energy Density up to 320Wh/Kg
- B** Support 1C Charging
- C** Safe Discharge to 3.1V/Cell
- E** Suit for Long Endurance Mapping Mission



1C Discharge Curve



3C Discharge Curve



| Battery Specifications | | | | |
|------------------------|--------------|---------------------------------------|-----------------|---------------|
| No. | Battery Type | Battery Model | Dimension(±5mm) | Weight(±100g) |
| 1 | NMC LiPO | Tattu NMC 811 5C 16000mAh 22.2V 6S1P | 192x77x49mm | 1470g |
| 2 | NMC LiPO | Tattu NMC 811 5C 17000mAh 22.2V 6S1P | 192x73x53mm | 1532g |
| 3 | NMC LiPO | Tattu NMC 811 5C 20000mAh 22.2V 6S1P | 189x58x76mm | 1800g |
| 4 | NMC LiPO | Tattu NMC 811 5C 22000mAh 22.2V 6S1P | 207x92x50mm | 1988g |
| 5 | NMC LiPO | Tattu NMC 811 5C 25000mAh 22.2V 6S1P | 207x92x57mm | 2200g |
| 6 | NMC LiPO | Tattu NMC 811 5C 27000mAh 22.2V 6S1P | 210x93x63mm | 2440g |
| 7 | NMC LiPO | Tattu NMC 811 5C 28000mAh 22.2V 6S1P | 207x92x62mm | 2500g |
| 8 | NMC LiPO | Tattu NMC 811 5C 30000mAh 22.2V 6S1P | 207x92x67mm | 2580g |
| 9 | NMC LiPO | Tattu NMC 811 5C 70000mAh 22.2V 6S1P | 287x152x66mm | 5920g |
| 10 | NMC LiPO | Tattu NMC 811 5C 16000mAh 44.4V 12S1P | 193x77x96mm | 2840g |
| 11 | NMC LiPO | Tattu NMC 811 5C 17000mAh 44.4V 12S1P | 192x73x111mm | 2950g |
| 12 | NMC LiPO | Tattu NMC 811 5C 20000mAh 44.4V 12S1P | 189x76x122mm | 3850g |
| 13 | NMC LiPO | Tattu NMC 811 5C 22000mAh 44.4V 12S1P | 208x92x98mm | 3500g |
| 14 | NMC LiPO | Tattu NMC 811 5C 28000mAh 44.4V 12S1P | 208x92x122mm | 4800g |
| 15 | NMC LiPO | Tattu NMC 811 5C 25000mAh 44.4V 12S1P | 208x92x111mm | 4270g |
| 16 | NMC LiPO | Tattu NMC 811 5C 30000mAh 44.4V 12S1P | 208x92x130mm | 4900g |
| 17 | NMC LiPO | Tattu NMC 811 5C 70000mAh 44.4V 12S1P | 288x152x131mm | 11670g |
| 18 | NMC LiPO | Tattu NMC 811 5C 22000mAh 51.8V 14S1P | 208x92x114mm | 4400g |
| 19 | NMC LiPO | Tattu NMC 811 5C 28000mAh 51.8V 14S1P | 208x92x142mm | 5530g |
| 20 | NMC LiPO | Tattu NMC 811 5C 30000mAh 51.8V 14S1P | 208x92x151mm | 5890g |
| 21 | NMC LiPO | Tattu NMC 811 5C 70000mAh 51.8V 14S1P | 288x152x152mm | 13590g |

04

NMC LiHV Battery Solution

- A** High Energy Density up to 245Wh/Kg
- B** Support 1C Charging
- C** Safe Discharge to 3.35V/Cell
- D** Suit for Heavy Payload Multirotor Drone such as Aerial Photoing, Agriculture, Inspection



| Battery Specifications | | | | |
|------------------------|--------------|---|-----------------|---------------|
| No. | Battery Type | Battery Model | Dimension(±5mm) | Weight(±100g) |
| 1 | NMC LiHV | Tattu NMC AGRI 25C 16000mAh 22.8V 6S1P | 191x78x59mm | 1880g |
| 2 | NMC LiHV | Tattu NMC AGRI 25C 22000mAh 22.8V 6S1P | 208x90x63mm | 2473g |
| 3 | NMC LiHV | Tattu NMC AGRI 25C 16000mAh 45.6V 12S1P | 191x78x129mm | 3760g |
| 4 | NMC LiHV | Tattu NMC AGRI 25C 22000mAh 45.6V 12S1P | 208x90x134mm | 4350g |
| 5 | NMC LiHV | Tattu NMC AGRI 25C 30000mAh 45.6V 12S1P | 248x109x129mm | 5400g |
| 6 | NMC LiHV | Tattu NMC AGRI 25C 16000mAh 53.2V 14S1P | 191x78x150mm | 6250g |
| 7 | NMC LiHV | Tattu NMC AGRI 25C 22000mAh 53.2V 14S1P | 208x90x154mm | 7200g |
| 8 | NMC LiHV | Tattu NMC AGRI 25C 30000mAh 53.2V 14S1P | 248x109x150mm | 8360g |

05

Ultra LiHV Battery Solution

- A** High Energy Density up to 290Wh/Kg
- B** High Voltage 4.45V/Cell
- C** Support 1C Charging Rate
- D** Safe Discharge to 3.6V/Cell
- E** Suit for Long Endurance Mapping Mission



Battery Specifications

| No. | Battery Type | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|--------------|--|-----------------|---------------|
| 1 | Ultra LiHV | Tattu Ultra LiHV 5C 4600mAh 6S1P 23.7V | 145x46x38mm | 520g |
| 2 | Ultra LiHV | Tattu Ultra LiHV 5C 6900mAh 6S1P 23.7V | 134x47x57mm | 710g |
| 3 | Ultra LiHV | Tattu Ultra LiHV 5C 20000mAh 6S1P 23.7V | 191x78x62mm | 1850g |
| 4 | Ultra LiHV | Tattu Ultra LiHV 5C 22000mAh 6S1P 23.7V | 191x78x68mm | 2000g |
| 5 | Ultra LiHV | Tattu Ultra LiHV 5C 28000mAh 6S1P 23.7V | 205x51x68mm | 2500g |
| 6 | Ultra LiHV | Tattu Ultra LiHV 5C 34000mAh 6S1P 23.7V | 202x123x63mm | 3100g |
| 7 | Ultra LiHV | Tattu Ultra LiHV 5C 20000mAh 12S1P 47.4V | 191x78x118mm | 3680g |
| 8 | Ultra LiHV | Tattu Ultra LiHV 5C 28000mAh 12S1P 47.4V | 206x93x121mm | 4250g |
| 9 | Ultra LiHV | Tattu Ultra LiHV 5C 28000mAh 14S1P 55.3V | 206x93x140mm | 6540g |
| 10 | Ultra LiHV | Tattu Ultra LiHV 5C 38000mAh 14S1P 55.3V | 216x123x137mm | 7610g |
| 11 | Ultra LiHV | Tattu Ultra LiHV 5C 41000mAh 18S1P 71.1V | 240x107x233mm | 10800g |

Eduaction and Entertainment

- A** Power the Next Generation Aviation Sports
- B** Drive the Future-Style Race Competition
- C** Customized Smart Battery Solutions Optional



Battery Specifications

| Application | Battery Model | Dimension(±5mm) | Weight(±5g) |
|------------------|--|-----------------|-------------|
| Soccer Drone | Tattu 75C 450mAh 7.4V 2S1P | 45x24x15mm | 28g |
| | Tattu R-Line 95C 650mAh 11.1V 3S1P | 60x31x19mm | 60g |
| | Tattu 45C 850mAh 11.1V 3S1P | 60x30x22mm | 74g |
| | Tattu R-Line 95C 850mAh 14.8V 4S1P | 61x31x31mm | 105g |
| | Tattu R-Line 95C 1100mAh 11.1V 3S1P | 62x27x25mm | 80g |
| | Tattu 100C 2600mAh 14.8V 4S1P | 95x35x30mm | 267g |
| | Tattu 100C 2800mAh 14.8V 4S1P | 107x35x37mm | 270g |
| Drone Light Show | Tattu 100C 3000mAh 14.8V 4S1P | 107x35x39mm | 290g |
| | Tattu 45C 3700mAh 14.8V 4S1P | 136x41x27mm | 372g |
| FPV | Tattu 35C 5200mAh 14.8V 4S1P | 133x45x34mm | 437g |
| | Tattu R-Line 95C 2200mAh 6S1P | 116x39x34mm | 321g |
| | Tattu R-Line Version 5.0 150C 850mAh 3S1P | 58x30x22mm | 76g |
| | Tattu R-Line Version 5.0 150C 1300mAh 4S1P | 75x38x27mm | 156g |
| | Tattu R-Line Version 5.0 150C 1200mAh 6S1P | 78x39x35mm | 196g |
| | Tattu R-Line Version 5.0 150C 1400mAh 6S1P | 78x38x40mm | 223g |
| | Tattu R-Line Version 5.0 150C 1050mAh 8S1P | 77x38x42mm | 242g |

PRODUCT CENTER

SMART BATTERY SERIES

Tattu Plus Smart Battery

- A** Enhanced Hardcase Structure Design
- B** LED Indicators Display Real-time SOC
- C** Unique BMS Inside Supports Smart Storage
- D** Support DroneCan Protocol



Battery Specifications

| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|-------------------------------------|-----------------|---------------|
| 1 | Tattu Plus 25C 10000mAh 22.2V 6S1P | 186x70x63mm | 1466g |
| 2 | Tattu Plus 15C 12000mAh 22.2V 6S1P | 202x76x61mm | 1670g |
| 3 | Tattu Plus 15C 16000mAh 22.2V 6S1P | 202x83x70mm | 2063g |
| 4 | Tattu Plus 25C 22000mAh 22.2V 6S1P | 214x96x68mm | 2640g |
| 5 | Tattu Plus+ 10C 25000mAh 22.2V 6S1P | 222x105x79mm | 2800g |

02

Tattu Plus 1.0 Compact LiPO Smart Battery

- A** Upgraded Frame Structure Design
- B** Lightweight Characteristic
- C** DroneCAN Protocol Enables the Compatibility of Ardupilot/PX4
- D** Intelligent BMS Simplify the Operation



Battery Specifications

| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|---|-----------------|---------------|
| 1 | Tattu PLUS 1.0 Compact 15C 10000mAh 44.4V 12S1P | 220x82x152mm | 2800g |
| 2 | Tattu PLUS 1.0 Compact 15C 16000mAh 44.4V 12S1P | 224x90x163mm | 4250g |

Tattu Pro and Tattu 3.0 LiPO/LiHV Smart Battery

- A** Full Aluminum Metal Structure Design
- B** 3C-5C Fast Charge Rate
- C** Optimized Heat Dissipation
- D** Molex and AS150U-F Connector Optional

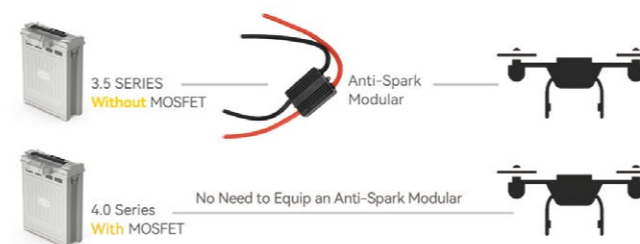


Battery Specifications

| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|---------------------------------------|-----------------|---------------|
| 1 | Tattu PRO 25C 16000mAh HV 45.6V 12S1P | 224x90x164mm | 4550g |
| 2 | Tattu PRO 25C 22000mAh HV 45.6V 12S1P | 234x116x172mm | 5750g |
| 3 | Tattu PRO 25C 22000mAh HV 53.2V 14S1P | 238x117x174mm | 7200g |
| 4 | Tattu PRO 25C 22000mAh 44.4V 12S1P | 238x117x174mm | 6300g |
| 5 | Tattu PRO 25C 22000mAh 51.8V 14S1P | 238x117x174mm | 7350g |
| 6 | Tattu 3.0 25C 10500mAh HV 53.2V 14S1P | 186x96x236mm | 4300g |
| 7 | Tattu 3.0 25C 22000mAh 51.8V 14S1P | 290x91x236mm | 8800g |
| 8 | Tattu 3.0 25C 22000mAh HV 53.2V 14S1P | 290x91x236mm | 7950g |
| 9 | Tattu 3.0 35C 30000mAh HV 68.4V 18S1P | 324x127x274mm | 13800g |

Tattu 3.5 & 4.0 HIGH POWER SMART BATTERY

- A** Longer: 30Ah high capacity extends flight time
- B** Faster: 4C-5C fast charging, 10mins from 30% to 95%
- C** Stronger: Improved ventilation system
- D** Powerful: Designed for MTOW 70-100kg heavy-lifting drone
- E** Optional Choice: Equipped with Mosfet Modular



Battery Specifications

| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|------------------------------------|-----------------|---------------|
| 1 | TATTU 3.5 25C 20000mAh 53.2V 14S1P | 261x237x92.5mm | 7900g |
| 2 | TATTU 3.5 35C 30000mAh 53.2V 14S1P | 333x237x92.5mm | 11500g |
| 3 | TATTU 4.0 25C 20000mAh 53.2V 14S1P | 261x237x92.5mm | 7900g |
| 4 | TATTU 4.0 35C 30000mAh 53.2V 14S1P | 333x237x92.5mm | 11500g |
| 5 | TATTU 4.0 35C 30000mAh 78.3V 18S1P | 333x237.5x175mm | 13800g |

05

12S Industrial Smart Battery

- A** Mosfet protection prevents short circuit
- B** 1C charging and 3C discharging rate
- C** Plug and play structure
- D** Support multi-batteries in parallel



Battery Specifications

| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|-------------------------------|--------------------|---------------|
| 1 | Tattu 5C 30000mAh 44.4V 12S1P | 285.5x163.6x97.2mm | 5880g |
| 2 | Tattu 5C 29000mAh 47.4V 12S1P | 285.5x163.6x97.2mm | 5950g |

06

18S NMC 811 Industrial Smart Battery

- A** High capacity with high energy density
- B** All aluminum cases with high-efficiency heat dissipation
- C** Integrated with high precision BMS
- D** Support DroneCAN protocol
- E** Special design for heavy payload delivery drone



Battery Specifications

| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
|-----|-------------------------------|-----------------|---------------|
| 1 | Tattu 5C 60000mAh 66.6V 18S2P | 254x242x183mmmm | 15900g |

07

12S Ultra High Voltage Industrial Smart Battery

- A** Compact structural design
- B** High performance MOS module
- C** Supports the use of multiple batteries in series and parallel configuration
- D** Built-in heating design suitable for low temperature environments
- E** Suitable for long-endurance applications, such as 50kg firefighting, logistics, and other industrial drones



| Battery Specifications | | | |
|------------------------|-------------------------------|-------------------|---------------|
| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
| 1 | Tattu 5C 30000mAh 47.4V 12S1P | 261x205.86x99.6mm | 6210g |

08

14S Industrial Smart Battery

- A** Compact structural design
- B** High energy density
- C** Support multiple series and parallel configuration
- D** Intelligent communication provides real-time feedback on battery status
- E** Ensure safer flight



| Battery Specifications | | | |
|------------------------|-------------------------------|-----------------|---------------|
| No. | Battery Model | Dimension(±5mm) | Weight(±100g) |
| 1 | Tattu 5C 30000mAh 51.8V 14S1P | 228x92x163mm | 6350g |

PRODUCT CENTER

INTELLIGENT CHARGING SOLUTION

Smart & Safe Charging, Remote Monitoring

Plug in to charge automatically



Monitor charging via Tattu APP



10 mins+



Put into use



PRODUCT CENTER

CHARGER

| Models | TA1000 | TA3200 / TA3200HV / TA3200UHV | TA7200 | TA9000PRO |
|------------------|--|---|---|---|
| AC Input | 100-240V 50/60Hz | 100-240V 50/60Hz | 100~240V 50/60Hz 50A(Max) Three-Phase Input Not Supported | 100~240V 50/60Hz 50A(Max) Three-Phase Input Not Supported |
| Max Output Power | 500W x 2 | 100-110V 1200W 220-240V 3200W | Max 7200W | Max 9000W |
| Charge Current | 25A x 2 | Up to 60A | Up to 120A | Up to 120A |
| Function | Charging Storage | Charging Storage | Standard Charging Fast Charging | Fast charging |
| Size | 186x174x95mm | 276x154x216mm | 398x225x217mm | 398x225x308mm |
| Weight | 1.7kg | 6kg | 10kg | 14kg |
| Battery Type | 1-7S LiPo(4.2V)/ LiHV(4.35V) Softpack Lipo Battery | 6-14S Tattu Smart Lipo Battery Or 4.2V/4.35V(HV)/4.45V(UHV) Softpack Lipo Battery | 12-14S Lipo(4.2V)/ LiHV(4.35V) Tattu Smart Lipo Battery | 12-18S LiPo(4.2V)/ LiHV(4.35V) Smart Lipo Battery |

PRODUCT CUSTOMIZATION

Smart Battery Customization



Communication Features

The most important part of the smart battery is to make it compatible with the communication protocol of the flight controller to enable data access by the operator. Now most of our smart batteries are compatible with Jiyi, UVVAN, Boying, VK V9, Ardupilot and PX4 flight controllers. Besides, Grepow is capable of designing and developing customized communication protocols for battery based on the communication protocol of flight controllers.

Charge & Discharge management

Real-time access to the data of voltage, current and temperature during charging and discharging is very important. Smart BMS can also be designed to achieve alarm or protection during charging & discharge if any abnormal appears. Over-voltage, over-current, over-temperature, large voltage difference, and short circuit could be detected by smart BMS board and then alarm operators to take actions.

Bluetooth APP

Customized smart battery is also compatible with the Bluetooth APP developed by Grepow. By installing Grepow smart APP and connecting to the smart battery, the operator will have access to any data of the battery and also enable operator to upgrade firmware online directly.

Integrated Structure Design

One-stop customized products from cell, BMS to integrated smart battery require strong capability in the structure design. Grepow provides high structure design based on the unique requirement of functions and mechanical aspects to maximize the performance of each sector. Unique solution for unique projects.

Other features

Self-heating technology during low temperature ambient, ultra-low power consumption, reverse connection protection and self-discharge function are all customized.

Low Temperature Heating Solution

Designed for Vertical Take-off and Landing Fixed-wing UAVs for industry surveying and mapping.

Dual batteries are used at low temperature flight scenario to power necessary endurance considering the low discharge efficiency at this kind of condition, which is the regular method to meet the target task. Besides, Grepow creatively release the heating solution to quickly warm up the battery and then activate the performance to get ready to flight.

Key Features

■ Dual batteries automatically will be assigned with different communication IDs

Each smart battery will have a unique communication ID to help the flight controller get access to real-time data of each battery.

■ Heating module integrated with the BMS

The heating will be triggered once meets two conditions, one is the battery temperature below 15°C, and the other is the battery reaching to designed current. Besides, heating could be triggered by sending a heating command to actively heat battery for 2 minutes. The discharge efficiency can reach more than 95% after heating.



Multifunctional Jump Starter

Air Inflator / Water Pump / Emergency Light / Power Bank



- A** LiPO LiFePO4 cells
- B** Special working temperature
- C** Detachable structure
- D** Starting voltage 12V
- E** Peak current up to 3000A
- E** One-click switching between 12V and 24V modes

JA Series
JA301 | JA300 | JA302

J Series
J401 | J402 | J401X

AW Series
AW401

ApartX Series
LiPO | LiFe | LiPOX

LiFePO4-Tech Series
J1350 PRO | J2250 PRO | JA3000 PRO

NEW Heavy Duty Series
J8000HD

NEW JTC Series
JTC402

PRODUCT CUSTOMIZATION

Li+UPower UPS Battery



High Power

- A** High 3C charge, 40C discharge
- B** With a burst 250C discharge in 0.2s, the supply responds quickly during power outages

BMS Protection

- A** Equalization function, double hardware protection board
- B** Overcharge, over discharge, short circuit, high/low temperature protection

Certification Qualified

- A** Battery products meet safety standards
- B** UN 38.3, IEC62133, UL1642, UL991, UL1973, CE incl EMC, RoHS, 2006/66/EC, REACH, FCC

Lead-Acid Replacement

- A** Environment-friendly features & Zero maintenance cost
- B** LifePO4 cell chemistry with stacking technology enables 150Wh/kg high energy density and 4,000 cycle lifes

PRODUCT CUSTOMIZATION



Shaped Battery

- A** Micro dimensions, ultra thin
- B** High capacity
- C** High energy density
- D** High discharge rate performance
- E** Special shapes: Arc, L, Narrow, Rectangle, Trapezoid
- F** Perfect for small, portable and smart electronics devices

