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Drone Battery & Charger  
Integration Solution Provider

# DRONE BATTERY & CHARGER INTEGRATION

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

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1998

Founded

200,000 m<sup>2</sup>

Production Area

2,000+

Employees

300+

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 energy solutions tailored for drone technology, enhancing customer experience with cutting-edge efficiency.

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 320Wh/Kg
- B** Over 1000 Times Super Long Cycle life
- C** Safety Discharged to 2.75/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

## SPECIAL ADVANTAGES

### Low Temperature Cells **LT**

- A** Wide Working Temperature Range:  $-40^{\circ}\text{C}$  to  $50^{\circ}\text{C}$
- B** 80% Discharge Capacity at 0.2C Under  $-40^{\circ}\text{C}$  Environment
- C** 85% Capacity Retention Rate at 0.5C Charge and Discharge in  $-30^{\circ}\text{C}$
- D** Safe and Reliable with Various Certification: UL/CE/UN



Discharge Curve At Different Temperature  
0.5C Discharge To 3.0V ( $-30^{\circ}\text{C}$  To  $-50^{\circ}\text{C}$ )



Low Temperature Battery Charging Curve  
0.2C Charge To 4.2V @  $-20^{\circ}\text{C}$

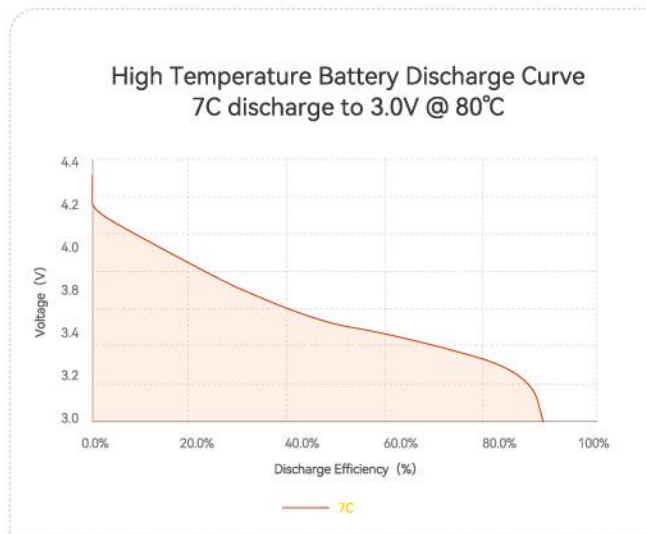


# SPECIAL ADVANTAGES

# 06

## High Temperature Cells **HT**

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



# ONE-STOP POWER SOLUTION PROVIDER FOR DRONE



- Agricultural Spraying Drone
- Inspection Drone
- Firefighting Drone
- Photography Drone
- Mapping and Surveying Drone
- eVTOL
- Delivery Drone
- Commercial 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 enables plug and play, enhancing the user experience with great convenience. Once the charger and battery are connected, the G-Tech Smart Battery will automatically recharge as soon as the charger countdown ends.

#### C Smart Charging

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



# PRODUCT CENTER

## SOFT PACK SERIES

# 01



### 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

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

# 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 25C 11000mAh HV 22.8V 6S1P	176x65x56mm	1350g
2	LCO LiHV	Tattu 15C 17000mAh HV 22.8V 6S1P	194x77x62mm	1847g
3	LCO LiHV	Tattu 25C 23000mAh HV 22.8V 6S1P	208x90x63mm	2473g
4	LCO LiHV	Tattu 10C 25000mAh HV 22.8V 6S1P	207x92x63mm	2525g
5	LCO LiHV	Tattu 25C 32000mAh HV 22.8V 6S1P	216x125x61mm	3494g
6	LCO LiHV	Tattu 25C 40000mAh HV 22.8V 6S1P	261x124*64mm	4292g

# 03

## NMC811 Lipo Battery Solution

- A** Higher Energy Density up to 320Wh/Kg
- B** Support 1C Charging
- C** Safe Discharge to 3.0V/cell
- E** Suit for Long Endurance Mapping Mission



### Battery Specifications

No.	Battery Type	Battery Model	Dimension(±5mm)	Weight(±100g)
1	NMC LiPO	Tattu NMC 811 5C 17000mAh 22.2V 6S1P	192x73x53mm	1532g
2	NMC LiPO	Tattu NMC 811 5C 20000mAh 22.2V 6S1P	189x76x58mm	1800g
3	NMC LiPO	Tattu NMC 811 5C 22000mAh 22.2V 6S1P	192x78x68mm	1988g
4	NMC LiPO	Tattu NMC 811 5C 27000mAh 22.2V 6S1P	210x93x63mm	2440g
5	NMC LiPO	Tattu NMC 811 5C 28000mAh 22.2V 6S1P	204x92x65mm	2500g
6	NMC LiPO	Tattu NMC 811 5C 30000mAh 22.2V 6S1P	209x67x93mm	2580g
7	NMC LiPO	Tattu NMC 811 5C 17000mAh 44.4V 12S1P	200x111x73mm	2950g
8	NMC LiPO	Tattu NMC 811 5C 22000mAh 44.4V 12S1P	200x133x79mm	3850g
9	NMC LiPO	Tattu NMC 811 5C 20000mAh 44.4V 12S1P	200x122x78mm	3500g
10	NMC LiPO	Tattu NMC 811 5C 28000mAh 44.4V 12S1P	215x126x93mm	4800g
11	NMC LiPO	Tattu NMC 811 5C 30000mAh 44.4V 12S1P	213x132x93mm	4900g

# 04

## NMC LiHV Battery Solution

- A** Higher 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	202x77x59mm	1880g
2	NMC-LiHV	Tattu NMC AGRI 25C 22000mAh 22.8V 6S1P	208x90x63mm	2473g



# 05

## Ultra LiHV Battery Solution

- A** Higher 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	145x44.5x38mm	520g
2	Ultra LiHV	TATTU Ultra LiHV 5C 20000mAh 6S1P 23.7V	191x77.5x62mm	1850g
3	Ultra LiHV	TATTU Ultra LiHV 5C 22000mAh 6S1P 23.7V	191x77.5x67.5mm	2000g
4	Ultra LiHV	TATTU Ultra LiHV 5C 28000mAh 6S1P 23.7V	205x50.5x68mm	2500g
5	Ultra LiHV	TATTU Ultra LiHV 5C 34000mAh 6S1P 23.7V	202x122.5x62.5mm	3100g

# PRODUCT CENTER

## SMART BATTERY SERIES

# 01

## Tattu Plus Smart Battery

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



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

# 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	152x82x220mm	2800g
2	Tattu PLUS 1.0 Compact 15C 16000mAh 44.4V 12S1P	224x163x90mm	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 25C 28000mAh HV 53.2V 14S1P	290x91x236mm	9100g
10	Tattu 3.0 35C 30000mAh HV 68.4V 18S1P	324x127x274mm	13800g

# 04

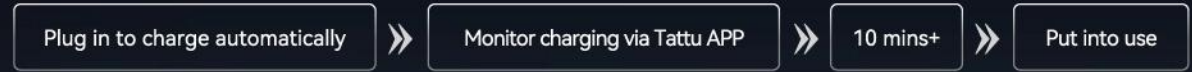
## Tattu 4.0 HIGH POWER SMART BATTERY

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



Battery Specifications			
No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	TATTU 4.0 35C 30000mAh 53.2V 14S1P	145.5x251x333.5mm	11400g±300g
2	TATTU 4.0 35C 20000mAh 53.2V 14S1P	145.5x251x333.5mm	8400g±300g

## Smart & Safe Charging, Remote Monitoring



# PRODUCT CENTER

## INTELLIGENT CHARGING SOLUTION



# PRODUCT CENTER

## CHARGER

Models	TA1000	TA3000	TA3200HV	TA9000PRO
AC Input	100-240V 50/60Hz	100-240V 50/60Hz	100-240V 50/60Hz	100-240V 50/60Hz 50A(Max) Three-Phase Input Not Supported
Max Output Power	500W x 2	100-110V 1200W 220-240V 3000W	100-110V 1200W 220-240V 3200W	Max 9000W
Charge Current	25A x 2	Up to 60A	Up to 60A	Up to 120A
Function	Charging Storage	Charging Storage	Charging Storage	Fast charging
Size	186x174x95mm	276x154x216mm	276x154x216mm	398x225x308mm
Weight	1.7kg	6.11kg	6kg	14kg
Battery Type	1-7S LiPo(4.2V)/ LiHV(4.35V) Soft Pack	12-14S Smart Lipo Battery	6-14S Smart Lipo Battery Or 4.35V Soft Pack	12-18S LiPo(4.2V)/ LiHV(4.35V) Smart Lipo Battery

# PRODUCT CUSTOMIZATION

## Soft Pack Customization

Tattu accepts customized, semi-customized and spot drone batteries. We could design and manufacture customized batteries ranging from chemistry to structure and protection systems. As a professional drone battery supplier, we confidently provide the perfect battery solution for your specific project, whether OEM or ODM.



● Model	60000mAh 66.6V 18S2P 3C
● Dimension(±5mm)	83X242X254
● Weight(±100g)	15900



● Model	30000mAh 44.4V 12S1P 5C
● Dimension(±5mm)	101X167X285.5
● Weight(±100g)	5880

# PRODUCT CUSTOMIZATION

## G-Tech Smart Battery Customization


- A** 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.
- B** 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 CUSTOMIZATION


## Smart Battery Customization




- 

Customized smart batteries ensure that during flight, the flight control system can obtain the current remaining power in real time to calculate the remaining flight time. Users can also view complete information such as battery cell status, cycle times, temperature, etc. in real time through the customized app.
- 

In addition to status monitoring during flight, the intelligent battery management system also has overcharge and over-discharge protection to prevent battery damage.
- 

When the battery is left unused for a long time, Grepow's smart battery will automatically discharge to 50%, keeping the battery in optimal condition for a longer life.
- 

If you are flying in a cold area, the battery can activate low-temperature protection and control the power output according to the temperature, allowing the battery to provide power at the appropriate temperature and protecting the battery from low-temperature damage.
- 

Grepow battery technology can not only monitor battery status and extend service life, but more importantly, provide safe and reliable battery monitoring to make flying safer.

## Multifunctional Jump Starter

Air Inflator / water Pump / Emergency Light / Power Bank



- A** Lipo LiFeO4 cells
- B** Special working temperature
- C** Detachable structure
- E** Starting Voltage 12V
- F** Peak Current up to 3000A

JA301 | JA300 | JA302    AW401    J401 | J402 | J401X    Apartx Lipo LiFe    J2250 | J3250 | JA3000

# PRODUCT CUSTOMIZATION



## Li+UPower UPS Battery

- High Power**
  - A** High-rate 3C Charge, 40C Discharge
  - B** With a 250C discharge rate 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** Environmentally Friendly & Zero Maintenance Cost
  - B** LiFePO4 cell with stacking tech, the energy density of up to 150Wh/Kg and up to 4,000 cycles life

# 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** Great safety and is perfect for small, mobile, smart electronics

