



Drone Battery & Charger
Integration Solution Provider

DRONE BATTERY & CHARGER INTEGRATION



SEMI-SOLID STATE BATTERY | LIUHV BATTERY
LIPO BATTERY | LIHV BATTERY
G-TECH BATTERY | SMART BATTERY
SMART CHARGER | CUSTOMIZED SOLUTION

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1998

Founded

230,000 m²

Production Area

3,200+

Employees

350+

R&D Engineers

4+3

4 Production Bases

3 International Sales & Marketing Offices

About Grepow

Shenzhen Grepow Battery Co., Ltd.(Abbr.Grepow) is a 28 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 Semi-solid State High Energy Density and Ultra High Voltage 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 24S1P Smart 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

NM LiPo CELL 450 Wh/Kg **Semi-Solid State Cells**

- A** High Energy Density up to 450Wh/Kg
- B** Over 1200 Times Super Long Cycle life
- C** Safe Discharge to 2.75V/Cell
- D** Extremely Light Weight

01



LIHV 4.45V **Ultra High Voltage**

- A** 4.35V-4.45V HV Cell
- B** High Energy Density up to 300Wh/Kg
- C** Fast Charging up to 10C
- D** High and Stable Discharge Platform

02

SPECIAL ADVANTAGES

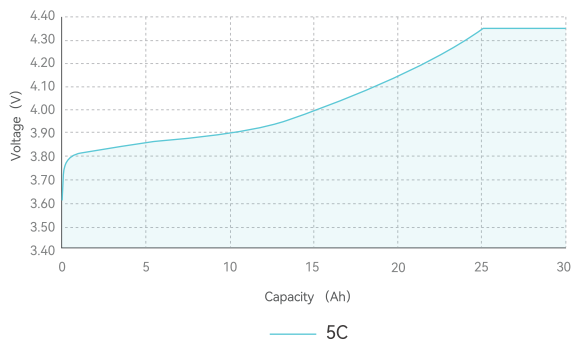
High C Rate Cells

HC

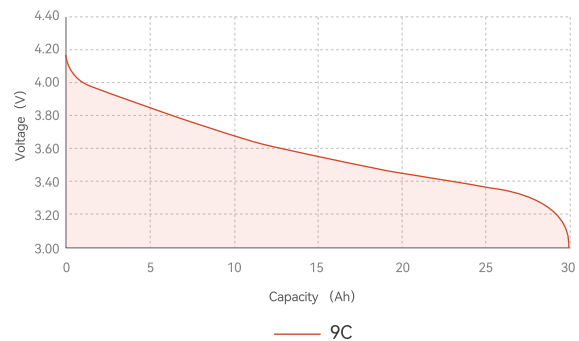
- A** Ability to Achieve 150C Pulse, 50C Continuous Discharge, and 5C Fast Charging
- B** High Performance in Power, Discharge, and Life Cycles
- C** Customizable Shape and Capacity



Charging Curve at 5C
Charge to 4.35V @25°C



Discharge Curve at 9C
Discharge to 3V @25°C



SPECIAL ADVANTAGES

04

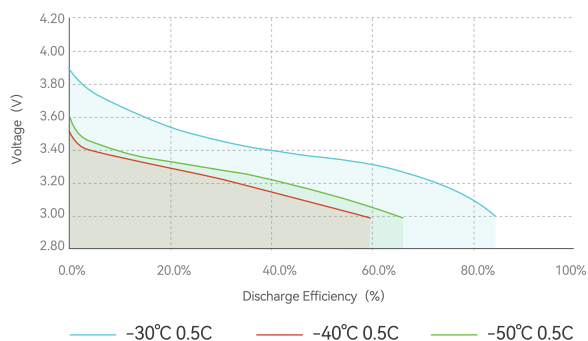
Low Temperature Cells



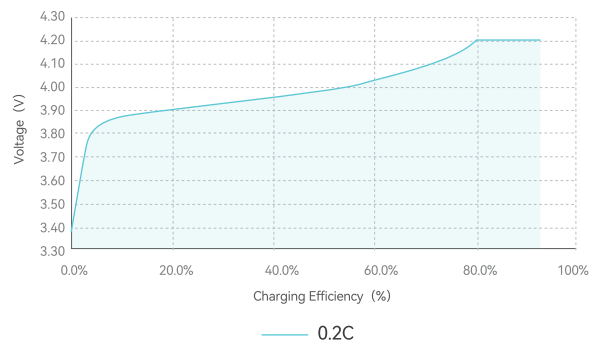
- A** Wide Working Temperature Range: -40°C to -50°C
- B** Support 2.5C Discharge Rates in -40°C to 20°C
- C** 85% Capacity Retention Rate at 0.5C Charge and Discharge in -30°C
- D** Safe and Reliable with Various Certifications: UL/CE/UN



Discharge Curve at Different Temperature
0.5C Discharge to 3.0V (-50°C to -30°C)



Low Temperature Battery Charging Curve
0.2C Charge to 4.2V @ -20°C



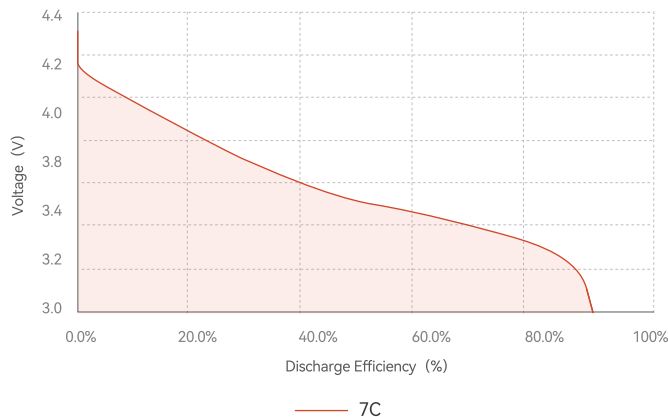
SPECIAL ADVANTAGES

05

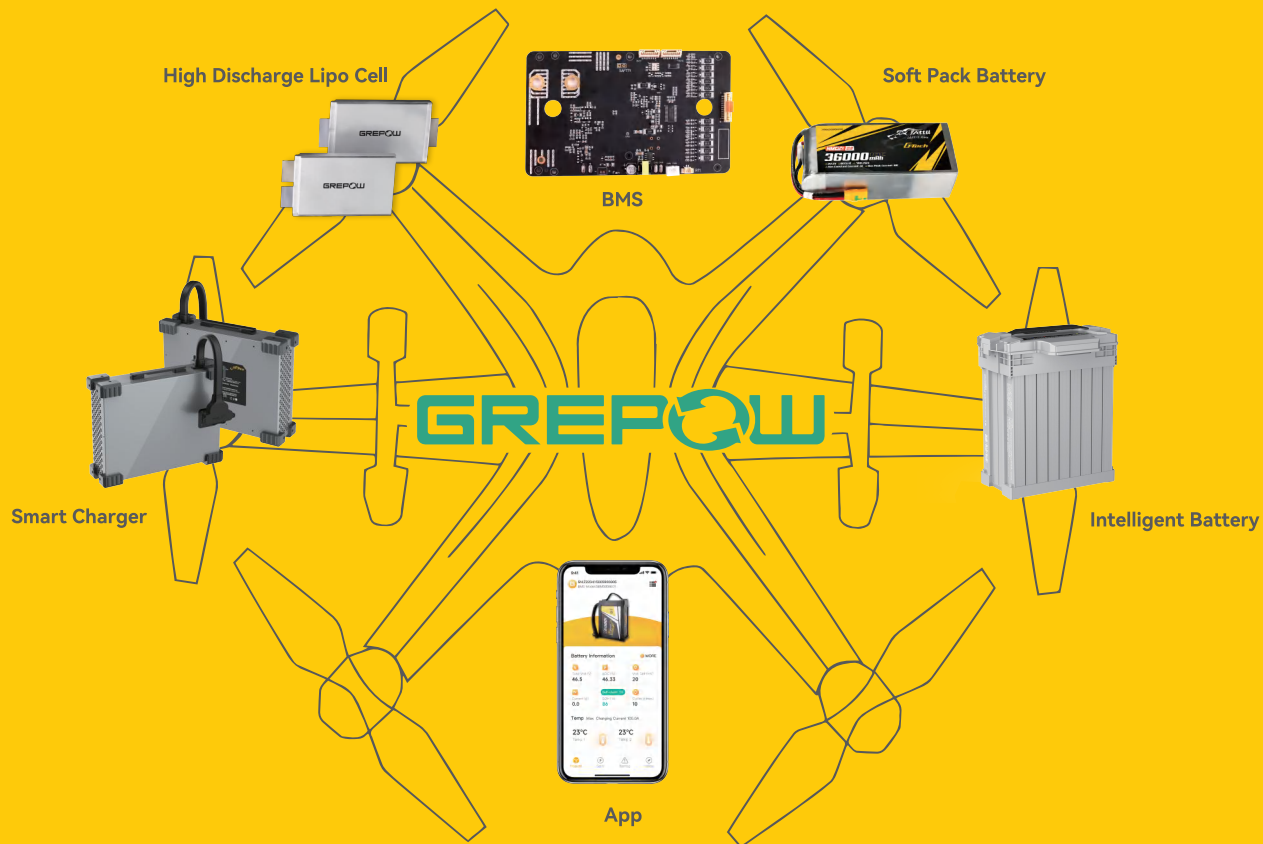
High Temperature Cells **HT**

- A** Wide Working Temperature Range: -20°C to 80°C
- B** 90% Discharge Capacity Retention 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

High Temperature Battery Discharge Curve
7C discharge to 3.0V @ 80°C



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
- 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	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

03

Semi-Solid State Lipo Battery Solution

- A** Exceptional Energy Density up to 450Wh/kg
- B** High-nickel Cathode and Silicon-carbon Anode
- C** Supports a Continuous Discharge Rate of 1-3C
- D** Customizable Designs Available
- E** Ideal for Long-endurance Missions with Mapping or Delivery Applications



Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
300Wh/Kg			
1	Tattu NMC300 25000mAh 6S1P	50.6x91.5x207mm	1964g
2	Tattu NMC300 25000mAh 12S1P	99.2x91.5x212mm	3906g
3	Tattu NMC300 30000mAh 6S1P	59.6x91.5x207mm	2324g
4	Tattu NMC300 30000mAh 12S1P	117.2x91.5x212mm	4672g
5	Tattu NMC300 30000mAh 14S1P	136.4x91.5x212mm	5451g
6	Tattu NMC300 84000mAh 6S1P	72.2x151.5x287mm	6368g
7	Tattu NMC300 84000mAh 12S1P	142.4x151.5x292mm	13276g
8	Tattu NMC300 84000mAh 24S1P	282.8x151.5x292mm	26553g

Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
330Wh/Kg			
1	Tattu NMC330 33000mAh 6S1P	59.6x91.5x207mm	2324g
2	Tattu NMC330 33000mAh 12S1P	117.2x91.5x212mm	4672g
3	Tattu NMC330 33000mAh 14S1P	136.4x91.5x212mm	5451g
4	Tattu NMC330 72000mAh 6S2P	89x130x215mm	5250g
5	Tattu NMC330 76000mAh 6S1P	59x151.5x287mm	5240g
6	Tattu NMC330 76000mAh 12S1P	116x151.5x292mm	10876g
7	Tattu NMC330 76000mAh 18S1P	173x151.5x292mm	16314g
8	Tattu NMC330 95000mAh 6S1P	72.2x151.5x287mm	6862g
350Wh/Kg			
1	Tattu NMC350 36000mAh 6S1P	63.8x91.5x207mm	2540.4g
2	Tattu NMC350 36000mAh 12S1P	125.6x91.5x212mm	5080.8g
3	Tattu NMC350 36000mAh 14S1P	146.2x91.5x212mm	5927.6g
4	Tattu NMC350 80400mAh 6S1P	60.6x151.5x287mm	5508g
5	Tattu NMC350 80400mAh 18S1P	178.4x151.5x292mm	16526g
6	Tattu NMC350 99000mAh 6S1P	72.2x151.5x287mm	6830g
7	Tattu NMC350 99000mAh 18S1P	212.6x151.5x292mm	20489g
380Wh/Kg			
1	Tattu NMC380 8000mAh 6S1P	27x65.5x176mm	585g
2	Tattu NMC380 8000mAh 8S1P	35x65.5x181mm	780g
3	Tattu NMC380 10500mAh 6S1P	34x65.5x176mm	760g
4	Tattu NMC380 10500mAh 8S1P	45x65.5x181mm	1000g
5	Tattu NMC380 12000mAh 6S1P	32x71.5x192mm	860g
6	Tattu NMC380 12000mAh 8S1P	43x71.5x197mm	1130g
7	Tattu NMC380 36000mAh 6S1P	59x89x206.5mm	2250g
8	Tattu NMC380 36000mAh 12S1P	127x89x209.5mm	4600g
9	Tattu NMC380 41000mAh 6S1P	52.5x104x234mm	2560g
10	Tattu NMC380 41000mAh 12S1P	114x104x237mm	5350g
11	Tattu NMC380 41000mAh 18S1P	171x104x242mm	8350
12	Tattu NMC380 87000mAh 6S1P	59.5x151.5x287mm	5300g
13	Tattu NMC380 87000mAh 18S1P	192.5x151.5x295mm	17450g

04

400Wh/kg and 450Wh/kg Semi-Solid State Battery Series

- A The energy density is up to 450Wh/kg
- B Lightweight Design
- C Anode-Free Semi-Solid Battery
- D Ideal for commercial UAVs, industrial robotics, and long-endurance applications.



Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
400Wh/kg			
1	Tattu NMC400 8000mAh 6S1P	26x65.5x180mm	540g
2	Tattu NMC400 8000mAh 8S1P	34x65.5x182mm	710g
3	Tattu NMC400 12000mAh 6S1P	31x71.5x194mm	770g
4	Tattu NMC400 12000mAh 8S1P	41x71.5x196mm	1020g
5	Tattu NMC400 12000mAh 12S1P	61x72x201mm	1540g
6	Tattu NMC400 16000mAh 6S1P	41x71.5x185mm	990g
7	Tattu NMC400 16000mAh 8S1P	54x71.5x187mm	1300g
8	Tattu NMC400 16000mAh 12S1P	80x72x192mm	2050g
9	Tattu NMC400 30000mAh 6S1P	49x91.5x205mm	1880g
10	Tattu NMC400 30000mAh 12S1P	108x92x212mm	3800g
11	Tattu NMC400 30000mAh 14S1P	126.5x92x214mm	4520g
12	Tattu NMC400 36000mAh 6S1P	58x91.5x205mm	2240g

Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
400Wh/Kg			
13	Tattu NMC400 36000mAh 12S1P	126x92x212mm	4530g
14	Tattu NMC400 36000mAh 14S1P	147.5x92x214mm	5380g
15	Tattu NMC400 40000mAh 6S1P	50x104.5x232mm	2500g
16	Tattu NMC400 40000mAh 12S1P	110x105x239mm	5060g
17	Tattu NMC400 40000mAh 14S1P	129.5x105x241mm	6010g
18	Tattu NMC400 40000mAh 18S1P	167x105x243mm	7930g
19	Tattu NMC400 107000mAh 6S1P	71x151.5x285mm	6600g
20	Tattu NMC400 107000mAh 12S1P	152x152x292mm	13400g
21	Tattu NMC400 107000mAh 18S1P	230x152x296mm	21010g
450Wh/Kg			
1	Tattu NMC450 8000mAh 6S1P	25x65.5x180mm	480g
2	Tattu NMC450 8000mAh 8S1P	32x65.5x182mm	640g
3	Tattu NMC450 8000mAh 12S1P	47x66x187mm	930g
4	Tattu NMC450 12000mAh 6S1P	25x71.5x194mm	670g
5	Tattu NMC450 12000mAh 8S1P	33x71.5x196mm	900g
6	Tattu NMC450 12000mAh 12S1P	49x72x201mm	1340g
7	Tattu NMC450 36000mAh 6S1P	46x89.5x205mm	1840g
8	Tattu NMC450 36000mAh 12S1P	91x90x212mm	3750g
9	Tattu NMC450 36000mAh 14S1P	106x90x214mm	4550g
10	Tattu NMC450 41000mAh 6S1P	40.5x104.5x232mm	2200g
11	Tattu NMC450 41000mAh 12S1P	80x105x239mm	4480g
12	Tattu NMC450 41000mAh 14S1P	167x152x294mm	16780g
13	Tattu NMC450 41000mAh 18S1P	119x105x243mm	7000g
14	Tattu NMC450 129000mAh 6S1P	66.5x151.5x285mm	6950g
15	Tattu NMC450 129000mAh 12S1P	142.5x152x292mm	14130g
16	Tattu NMC450 129000mAh 18S1P	215.5x152x296mm	22150g

05

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

06

Ultra LiHV Battery Solution

- A** High energy density up to 328Wh/kg
- B** Full charge up to 4.45V per cell
- C** Silicon-carbon anode
- D** Supports a continuous discharge rate of 2-20C
- E** Customizable designs available
- F** Ideal for long-endurance missions with mapping or delivery applications



Battery Specifications

No.	Battery Type	Battery Model	Dimension(±5mm)	Weight(±100g)
280Wh/Kg				
1	Ultra LiHV	Tattu 10C 17000mAh 23.7V 6S1P	59.6x71.5x187mm	1586g
2	Ultra LiHV	Tattu 10C 17000mAh 47.4V 12S1P	117.2x71.5x192mm	3102g
3	Ultra LiHV	Tattu 10C 17000mAh 55.3V 14S1P	136.4x71.5x192mm	3619g
4	Ultra LiHV	Tattu 10C 22000mAh 23.7V 6S1P	59.7x73.5x218mm	2018g
5	Ultra LiHV	Tattu 10C 22000mAh 47.4V 12S1P	119.9x73.5x223mm	4021g
6	Ultra LiHV	Tattu 10C 22000mAh 55.3V 14S1P	139.3x73.5x223mm	4692g
7	Ultra LiHV	Tattu 10C 27000mAh 23.7V 6S1P	44.7x120.5x217mm	2444g
8	Ultra LiHV	Tattu 10C 27000mAh 47.4V 12S1P	89.9x120.5x222mm	4927g
9	Ultra LiHV	Tattu 10C 27000mAh 55.3V 14S1P	104.3x120.5x217mm	5748g
10	Ultra LiHV	Tattu 10C 41000mAh 23.7V 6S1P	54.3x120.5x217mm	2972g
11	Ultra LiHV	Tattu 10C 41000mAh 47.4V 12S1P	109.1x120.5x222mm	6051g
12	Ultra LiHV	Tattu 10C 41000mAh 55.3V 14S1P	126.7x120.5x222mm	7059g
13	Ultra LiHV	Tattu 10C 54000mAh 23.7V 6S1P	71.1x104.5x234mm	3596g
14	Ultra LiHV	Tattu 10C 54000mAh 47.4V 12S1P	142.7x104.5x239mm	7378g
15	Ultra LiHV	Tattu 10C 54000mAh 55.3V 14S1P	165.9x104.5x239mm	8608g
16	Ultra LiHV	Tattu 10C 68000mAh 23.7V 6S1P	65.7x151x287mm	5888g
17	Ultra LiHV	Tattu 10C 68000mAh 47.4V 12S1P	131.9x151x292mm	12255g
18	Ultra LiHV	Tattu 10C 68000mAh 55.3V 14S1P	153.3x151x292mm	14297g
283Wh/Kg				
19	Ultra LiHV	Tattu 10C 32000mAh 47.4V 12S2P	170x128x257mm	10851g
328Wh/Kg				
20	Ultra LiHV	Tattu 10C 76000mAh 47.4V 12S1P	120.8x151x292mm	11806g

Eduaction and Entertainment

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



Battery Specifications

Application	Battery Model	Dimension(±5mm)	Weight(±5g)
Drone Soccer	Tattu 60C 500mAh 7.6V 2S1P	54x25x10mm	26g
	Tattu 60C 1100mAh 11.4V 3S1P	64x28x24mm	68g
	Tattu 120C 3000mAh 15.2V 4S1P	110x35x35mm	275g
Drone Light Show	Tattu 35C 3700mAh 14.8V 4S1P	136x41x27mm	372g
	Tattu 35C 5200mAh 14.8V 4S1P	133x45x34mm	437g
Drone Racing	Tattu 160C 1300mAh 22.2V 6S1P ST	78x39.5x33mm	203g
	Tattu 160C 1480mAh 22.2V 6S1P ST	77x37.6x36.6mm	220g
	Tattu 160C 1600mAh 22.2V 6S1P ST	77x36.4x40mm	240g
Cinelifter	Tattu 95C 4500mAh 22.2V 6S1P	147x49x45mm	682g
	Tattu 95C 5100mAh 22.2V 6S1P	150x50x55mm	868g
	Tattu 150C 3500mAh 22.2V 6S1P	139x42x46mm	576g
	Tattu 150C 6000mAh 22.2V 6S1P	162x45x62mm	941g
8"-18" FPV	Tattu 150C 7000mAh 30.4V 8S1P	170x74x53mm	1120g
	Tattu 95C 8000mAh 29.6V 8S1P	171x65x60mm	1480g
	Tattu 30C 12000mAh 29.6V 8S1P	190x71x72mm	2042g
	Tattu 30C 16000mAh 29.6V 8S1P	193x86x77mm	2650g
	Tattu 30C 22000mAh 29.6V 8S1P	208x91x81mm	3300g
	Tattu 30C 22000mAh 44.4V 12S1P	212x92x139mm	5350g

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



SMBUS



Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	Tattu Plus 25C 10000mAh 22.2V 6S1P	186x70x63mm	1400g
2	Tattu Plus 25C 12000mAh 22.2V 6S1P	202x76x61mm	1600g
3	Tattu Plus 25C 16000mAh 22.2V 6S1P	202x83x70mm	2050g
4	Tattu Plus 25C 22000mAh 22.2V 6S1P	214x96x68mm	2600g
5	Tattu Plus+ 10C 25000mAh 22.2V 6S1P	222x105x79mm	2800g

02

Tattu Plus 2.0 Compact LiPO Smart Battery

- A
- Lightweight design for extended flight time
- B
- Integrated smart BMS with DroneCAN communication
- C
- Supports high discharge performance for heavy payload UAVs
- D
- Wide operating temperature range for harsh environments
- E
- IP65 Waterproof Rating


Smart Warning


Smart Storage


Smart Balance


SOC


History Log


Bluetooth


Drone
CAN



Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	Tattu Plus 2.0 Compact 15C 10000mAh 44.4V 12S1P	220x82x152mm	2900g
2	Tattu Plus 2.0 Compact 15C 16000mAh 44.4V 12S1P	224x90x163mm	4200g

03

Tattu Pro/Pro Max Smart Battery

- A** High-rate 5C fast charging (30%–95% in ~10 min)
- B** Built-in intelligent BMS with full protection & diagnostics
- C** High power output up to 100A continuous / 150A burst
- D** Advanced waterproof & rugged structural design (IP65)



Smart Warning



Smart Storage



Smart Balance



SOC



SOH



History Log



Bluetooth



Drone CAN

Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	Tattu Pro 25C 16000 HV 45.6V 12S1P	90x164x223.8mm	4550g
2	Tattu Pro 25C 22000 HV 45.6V 12S1P	116x172x235.5mm	5750g
3	Tattu Pro 25C 22000 HV 53.2V 14S1P	117x174x238mm	7200g
4	Tattu Pro 25C 22000 44.4V 12S1P	117x174x238mm	6300g
5	Tattu Pro 25C 22000 51.8V 14S1P	117x174x238mm	7350g
6	Tattu Pro Max 22000mAh 25C HV 45.6V 12S1P	110x166x252mm	5750g
7	Tattu Pro Max 22000mAh 25C HV 53.2V 14S1P	110x166x252mm	6550g
8	Tattu Pro Max 22000mAh 25C 44.4V 12S1P	110x166x252mm	6250g
9	Tattu Pro Max 22000mAh 25C 51.8V 14S1P	110x166x252mm	6700g

Tattu 4.0 Smart Battery And Charger

- A** Longer Flight Time with 30Ah High Capacity
- B** 4C-5C Fast Charging (9 Minutes)
- C** Powerful, Designed for Heavy-liftingDrones with MTOW of 70-100kg
- D** Smart Auto-Cooling: Fan activatesautomatically at > 38°C.

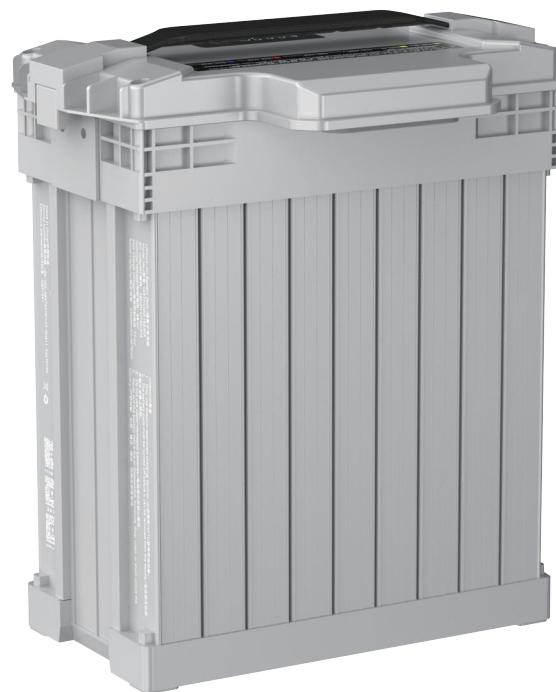


Battery Specifications			
No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	Tattu 4.0 25C 20000mAh HV 53.2V 14S1P	103x251x261mm	7900g
2	Tattu 4.0 35C 30000mAh HV 53.2V 14S1P	333.5x145.5x251mm	11400g
3	Tattu 4.0 35C 30000mAh HV 68.4V 18S1P	324x127x274mm	13800g
4	Tattu 4.0 35C 35000mAh HV 68.4V 18S1P	371x127x274mm	16500g

05

Tattu 5.0 High Power Smart Battery

- A** Dual-terminal lugs for minimal heat rise and high-rate output
- B** Supports 6C fast charging (270A @ 75°C) and
- C** 12C discharge One-touch power ON/OFF with multi-battery parallel connection
- D** Highly efficient cell balancing with ultra-low standby power
- E** Integrated dual-layer short-circuit protection
- F** Grille skeleton design reduces weight and improves heat dissipation



Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	Tattu 5.0 35C 34000mAh HV 68.4V 18S1P	175x275x351mm	15000g
2	Tattu 5.0 35C 45000mAh HV 68.4V 18S1P	356x310x206mm	19800g

06

Tattu Neo 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 Neo 5C 30000mAh 44.4V 12S1P	285.5x163.6x97.2mm	5880g
2	Tattu Neo 5C 29000mAh 47.4V 12S1P	285.5x163.6x97.2mm	5950g

07

Tattu Neo 18S 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
Support DroneCAN protocol
- E** Special design for heavy payload delivery drone



Battery Specifications

No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	Tattu Neo 5C 41000mAh 68.4V 18S2P	183x242x254mm	16300g
2	Tattu Neo 5C 60000mAh 66.6V 18S2P	254x242x183mm	15900g

08

Tattu Neo 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 Neo 5C 30000mAh 47.4V 12S1P	261x205.86x99.6mm	6210g

Tattu Neo Industrial Smart Compact Battery

- A** Compact structural design
- B** High energy density
- C** Support multiple series and parallel configurations
- D** Real-time battery data through droneCAN
- E** Ensure safer flight operations

09



Battery Specifications

Series	No.	Battery Model	Dimension(±5mm)	Weight(±100g)
330Wh/kg	1	Tattu Neo compact 26000mAh 10C 44.4V 12S1P	117x96x244mm	4180g
	2	Tattu Neo compact 33000mAh 10C 22.2V 6S1P	95x65x240mm	2804g
	3	Tattu Neo compact 33000mAh 10C 44.4V 12S1P	134x92x246mm	5148g
	4	Tattu Neo compact 33000mAh 10C 51.8V 14S1P	156x92x246mm	5912g
350Wh/kg	1	Tattu Neo compact 36000mAh 10C 44.4V 12S1P	145x92x252mm	5501g
	2	Tattu Neo compact 36000mAh 10C 51.8V 14S1P	168x92x252mm	6718g
	3	Tattu Neo compact 80400mAh 10C 51.8V 14S1P	159x152x320mm	13208g
4.45V/Cell	1	Tattu Neo compact 27000mAh 10C 47.4V 12S1P	118x121x262mm	5330g
	2	Tattu Neo compact 41000mAh 10C 55.3V 14S1P	183x105x276mm	9062g
	3	Tattu Neo compact 41000mAh 10C 71.1V 18S1P	236x105x276mm	11681g

10

Tattu Neo 24S Smart Battery

- A Supports Multiple Parallel Configurations
- B Supporting 3C Fast Charging and 5C Discharge
- C Design with Smart Protection Functions
- D DroneCAN Protocol Compatibility
- E Bluetooth Connectivity and Upgrade



Battery Specifications			
No.	Battery Model	Dimension(±5mm)	Weight(±100g)
1	Tattu Neo 35C 30000mAh 91.2V 24S1P	336x128x295mm	17000g
2	Tattu Neo 10C 60000mAh 88.8V 24S1P	291x201x323mm	20291g

PRODUCT CENTER

INTELLIGENT CHARGING SOLUTION

TA3200/TA3200HV/TA3200UHV

TA3000PLUS

TA9000PLUS

TA15000



Tattu Smart Charging Solution

Powering Drones with Efficiency
Safety, and Intelligence



TA7200PRO



Tattu 4.0 30Ah 18s



Tattu Air Cooler



TA9000 iEP

Smart & Safe Charging, Remote Monitoring

Plug in to charge automatically



Monitor charging via Tattu APP



9 mins+



Put into use



PRODUCT CENTER

INTELLIGENT CHARGING SOLUTION

TA3000PLUS



TA3000PRO



TA3200/TA3200HV
TA3200UHV



TA7200Pro



TA1000



TA1500



TA9000Plus



TA300



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, UUVAN, 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.

PRODUCT CENTER

CHARGER

Models	TA300	TA1000	TA1500	TA3000PRO	TA3000PLUS
Input Voltage	AC 100V-240V	AC 100V-240V	AC 100-240V	AC 100V-240V	AC 100V-240V
Battery Type	LiPo / LiHV	LiPo / LiHV	LiPo / LiHV / LiUHV	LiPo / LiHV / LiUHV	LiPo / LiHV / LiUHV
Battery Cells	2-4S Soft Pack Battery	1-7S	6-14S Soft Pack and Tattu Smart Battery	12-18S Tattu Smart Batter	12-24S Tattu Smart Batter
Charge Current	Max 2A	Max 25A	Max 30A	AC110V: Max 25A AC220V: Max 40A	AC110V: Max 25A AC220V: Max 40A
Charge Power	30Wx8	Max 500WX2	AC110V: Max 800W AC220V: Max 1500W	AC110V: Max 1200W AC220V: Max 3000W	AC110V: Max 1200W AC220V: Max 3000W
Discharge Power	30Wx8	Max 70WX2	Max 70W	Max 70Wx2	Max 70W
Channel	8	2	2	2	1
Output Plug	/	XT90	AS150U	AS150UPB-M	AS150UPB-M
Operating Temperature	0-45℃	0-45℃	0~65℃	0-65℃	0-65℃
Dimension	161.3X95X58.7mm	186X174X95mm	276x166x119mm	276X154X216mm	276X154X216mm
Weight	550G	1.7KG	3.5kg	6KG	6KG
Function	Charge, Storage	Charge, Storage	Charge, Storage	Charge	Charge, Storage
Protection	Overcharge, Voltage limiting, Overheating, Current Limiting, Short Circuit, Reverse Connection, Self-test				

PRODUCT CENTER

CHARGER

Models	TA3200 / TA3200HV / TA3200UHV	TA7200PRO	TA9000PLUS
Input Voltage	AC 100V-240V	AC 100V-240V Three phase input not supported	AC 100V-240V Three phase input not supported
Battery Type	LiPo / LiHV(HV) / LiUHV(UHV)	LiPo / LiHV / LiUHV	LiPo / LiHV / LiUHV
Battery Cells	6-14S Soft Pack or Tattu Smart Battery	12-18S Tattu Smart Battery	12-24S Tattu Smart Battery
Charge Current	AC110V: Max 40A AC220V: Max 60A	AC110V: Max 50A AC220V: Max120A	AC110V: Max 60A AC220V: Max 120A
Charge Power	AC110V: Max 1200W AC220V: Max 3200W	Mains Power AC110V: Max 1500W Mains Power AC220V: Max 3000W Generator Wire AC110V: Max 3000W Generator Wire AC220V: Max 7200W	Mains Power AC110V: Max 1200W Mains Power AC220V: Max 3000W Generator Wire AC110V: Max 3600W Generator Wire AC220V: Max 9000W
Discharge Power	Max 70WX2	X	X
Channel	2	2	2
Output Plug	AS150UPB-M	AS150U-F	AS150U-F
Operating Temperature	0-65°C	0-40°C	0-40°C
Dimension	276X154X216mm	398X225X217mm	398X225X308mm
Weight	6KG	10KG	14KG
Function	Charge, Storage	Charge, Fast Charge	Charge, Fast Charge
Protection	Overcharge, Voltage limiting, Overheating, Current Limiting, Short Circuit, Reverse Connection, Self-test		

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

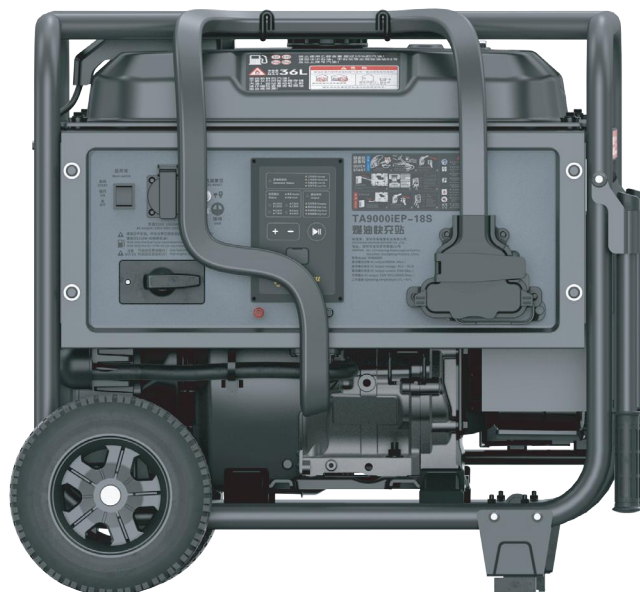
■ Dual batteries automatically will be assigned with different communication IDs

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.

TA9000iEP Charging Solution



Models	TA9000iEP
Starting method	Electric start
Working temperature	-5~45°C
Maximum working altitude	1000m (Power decreases when used at altitudes above 1000 metres.)
Engine speed	2200~4000 RPM
Fuel type	92# petrol or above
Oil type	Motor oil SJ 10W-40
Fuel tank	36 L
Oil Tank	1.1L
Rated Output	DC : 40~80V 150A(Max.) 9000W(Max.) AC: 220V 1000W (Max.)
AC Rated Power	1000W
Rated total output power	9000W
Maximum engine power	12000W
Battery	Tattu 4.0 18S Battery
Dimension	700±5×595±5×620±5mm
Weight	72±1kg

Tattu Smart Air Cooler

- A Smart Auto-Cooling: Fan activates automatically at $\geq 38^{\circ}\text{C}$.
- B Rapid Heat Dissipation: Multi-fan airflow for high-current charging.



Models	Tattu Smart Air Cooler
Size	376 × 314 × 443mm
Weight	7800g

-15°C



Signal



Battery

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

 Heavy Duty Series
J8000HD

 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

