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Social Madia



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

## **CONTENTS**

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1998

Founded

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

Production Area

2,000+

**Employees** 

200+

R&D Engineers

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**

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.

With the years technical support and industry experience of Grepow, Grepow



### **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

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





### **SPECIAL ADVANTAGES**

#### NMC811 Cells NMC8||

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





#### 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 Dischage Platform

### **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
- Customizable Shape and Capacity





#### Fast Charging Cells

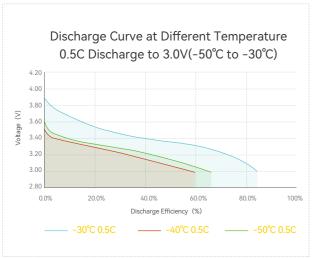
- A 2C to 5C Charging
- B Safe and Reliable
- C Stable Charging Temperature
- **D** Long-lasting and Durable

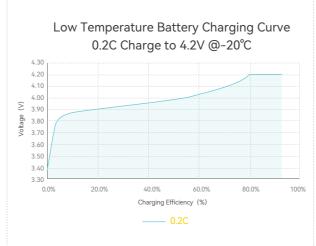
## **SPECIAL ADVANTAGES**

#### Low Temperature Cells



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

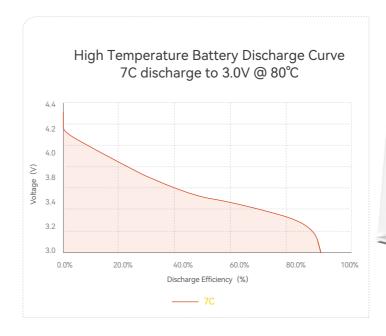




### **SPECIAL ADVANTAGES**



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







#### Drone Battery & Charger Integration Solution Provider 05 06

## 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
- Such as Aerial Photoing, Agriculture, Inspection
- Support LED Capacity Display





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

#### **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
- Suit for Long Endurance Mapping Mission



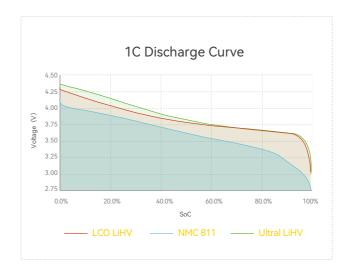
#### Battery Specifications

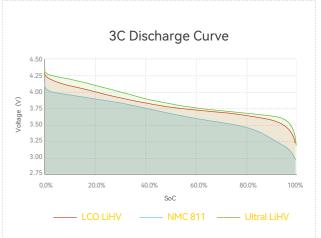
No.	Battery Type	Battery Model	Dimension(±5mm)	Weight(±100g)
1	LCO LiHV	Tattu 20C 4350mAh HV 22.8V 6S1P	133x56x41mm	590g
2	LCO LiHV	Tattu 10C 6000mAh HV 22.8V 6S1P	152x62x41mm	720g
3	LCO LiHV	Tattu 10C 8000mAh HV 22.8V 6S1P	177x67x47mm	1030g
4	LCO LiHV	Tattu 25C 11000mAh HV 22.8V 6S1P	176x65x56mm	1350g
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

### **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









#### 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

Drone Battery & Charger Integration Solution Provider 11112

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- A High Energy Density up to 245Wh/Kg

- D Suit for Heavy Payload Multirotor Drone such as Aerial Photoing, Agriculture, Inspection

22000 P5G

PACCESSORY

-651P -22.8V -501.6Wh

## B Support 1C Charging C Safe Discharge to 3.35V/Cell

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	

#### **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
- Customized Smart Battery Solutions Optional









Application	Battery Model	Dimension(±5mm)	Weight(±5g)
	Tattu 75C 450mAh7.4V 2S1P	45x24x15mm	28g
	Tattu R-Line 95C 650mAh 11.1V 3S1P	60x31x19mm	60g
	Tattu 45C 850mAh 11.1V 3S1P	60x30x22mm	74g
Soccer Drone	Tattu R-Line 95C 850mAh 14.8V 4S1P	61x31x31mm	105g
	Tattu R-Line 95C1100mAh 11.1V 3S1P	62x27x25mm	85g
	Tattu 100C 2600mAh 14.8V 4S1P	95x35x30mm	267g
	Tattu 100C 2800mAh 14.8V 4S1P	107x35x37mm	270g
	Tattu 100C 3000mAh 14.8V 4S1P	107x35x39mm	290g
	Tattu 45C 3700mAh 14.8V 4S1P	136x41x27mm	372g
Drone Light Show	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
FPV	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
- 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

#### **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
- Intelligent BMS Simplify the Operation





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
- 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**

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







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



#### 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

## **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



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



## 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
- 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	

#### **14S Industrial Smart Battery**

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



Battery Specificat
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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**





### **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 temeprature 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.

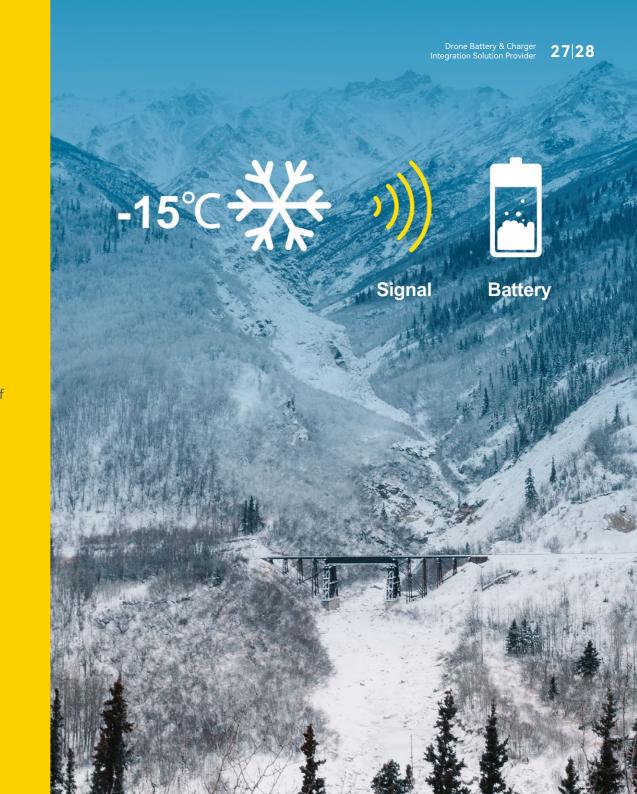
## **Key Features**

■ 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.



LI'UPQWER GREFOW

CE FC ROHS INSES 经基本

#### **Multifunctional Jump Starter**

Air Inflator / Water Pump / Emergency Light / Power Bank

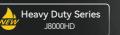


- A LiPO LiFePO4 cells
- B Special working temperature
- C Detachable structure

- D Starting voltage 12V
- E Peak current up to 3000A
- E One-click switching between 12V and 24V modes



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



JTC Series









- A High 3C charge, 40C discharge
- 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



J Series J401 | J402 | J401X

Less Is More

AW401

**AW Series** 

**ApartX Series** LiPO | LiFe | LiPOX



# PRODUCT CUSTOMIZATION



#### Shaped Battery

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



