

GREEN INTELLIGENT ENERGY



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Company Profile

Chaoli Smart Electric New Energy Co., Ltd. is a leading enterprise specializing in new semi-solid power supplies and energy storage system integration. It boasts independent R&D capabilities for core BMS and EMS systems and holds a number of patents. The company focuses on semi-solid UAV power supplies, light-duty power systems, as well as distributed and centralized energy storage systems, providing customers with one-stop overall solutions for new semi-solid power supplies and energy storage systems.

12,000⁺ m²

Industrial Park covers an area of

45%

R&D personnel proportion

10⁺ 年

Working experience of the R&D team Pack

10⁺ 年

Core R&D Genes of Energy Systems

CONTENTS

超锂电新能源有限公司



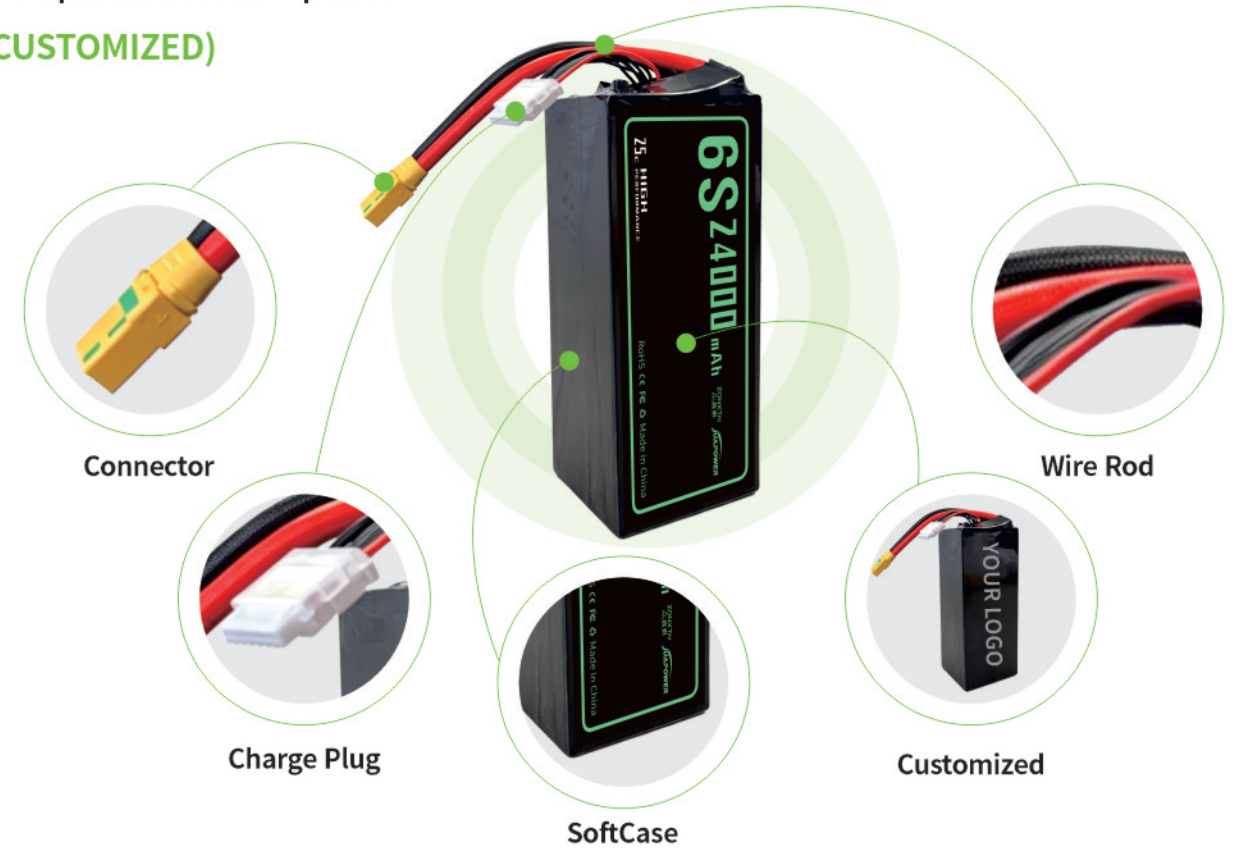
Factory Introduction

Chaoli Smart Electric owns mature and advanced R&D and production bases for power supply and energy storage systems. It covers the full production process from battery cells to system integration, including assembly, testing and delivery. The company has passed ISO9001 and other quality management system certifications, and is committed to providing customers with high-quality, well-manufactured power supply and energy storage systems.

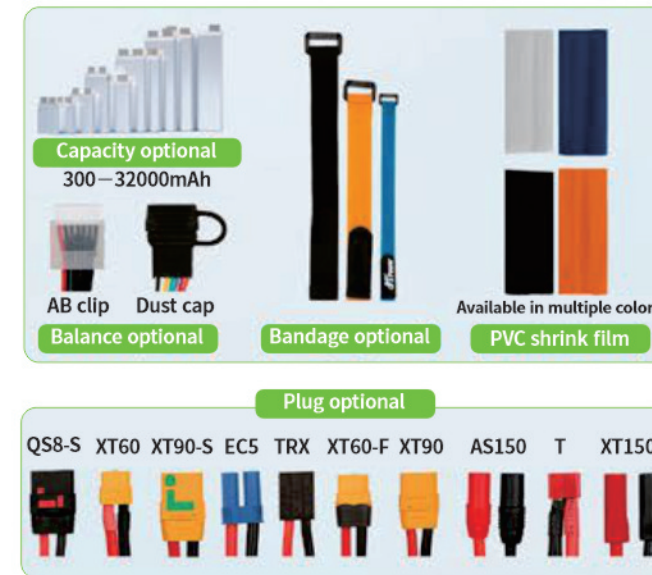


Product Display

Multiple connector options
(CUSTOMIZED)



Customized service



All plugs can be customized



01

SOLID-STATE DRONE BATTERY PACK

- ☑ 22.2V 11-50AH
- ☑ Lightweight Platform
- ☑ Stable Output
- ☑ Small & Medium UAVs



6s



- **HIGH-POWER DISCHARGE:** It can release a large amount of electrical energy in a short period of time, providing strong power support, enabling the flyer to fly quickly and perform various actions.
- **HIGH ENERGY DENSITY:** It can store more energy in a smaller volume, thereby improving the battery's endurance and usage efficiency.
- **APPLICABLE TYPES:** Mainly applicable to aircraft, especially cruise aircraft and other flying machines that require high power output.
- **MAIN MODELS:** 11000mAh-50000mAh.

6S - LIST OF DRONE BATTERY SERIES

MODEL	VOLTAGE	CAPACITY	SIZE	BATTERY POWER	WEIGHT
6S 11AH	22.2V	11AH	50*66*148mm	244.2Wh	1.05Kg
6S 16AH	22.2V	16AH	49*76*195mm	355.2Wh	1.57kg
6S 22AH	22.2V	22AH	64*76*195mm	488.4Wh	1.98Kg
6S 24AH	22.2V	24AH	66*78*197mm	532.8Wh	1.95Kg
6S 27AH	22.2V	27AH	61*90*213mm	599.4Wh	2.38Kg
6S 28AH	22.2V	28AH	65*77*197mm	621.6Wh	2.01Kg
6S 30AH	22.2V	30AH	67*90*213mm	666Wh	2.65kg
6S 32AH	22.2V	32AH	68*90*210mm	710.4Wh	2.45kg
6S 35AH	22.2V	35AH	63*91*214mm	777Wh	2.53kg
6S 39AH	22.2V	39AH	68*90*210mm	865.8Wh	2.73kg
6S 50AH	22.2V	50AH	68*107*253mm	1110Wh	3.75kg



Battery Pack-6S

22.2V 11-50AH Stable Output Lightweight Platform Small & Medium UAVs



Battery Dimension: 148*66*50mm
Battery Weight: 1.04Kg



Battery Dimension: 195*76*49mm
Battery Weight: 1.56Kg



Battery Dimension: 195*76*64mm
Battery Weight: 1.97Kg



Battery Dimension: 197*78*66mm
Battery Weight: 1.94Kg



Battery Dimension: 213*90*61mm
Battery Weight: 2.37Kg



Battery Dimension: 194*77*65mm
Battery Weight: 2.00Kg



Battery Dimension: 213*90*67mm
Battery Weight: 2.64Kg



Battery Dimension: 210*90*68mm
Battery Weight: 2.44Kg



Battery Dimension: 214*91*63mm
Battery Weight: 2.52Kg



Battery Dimension: 210*90*68mm
Battery Weight: 2.72Kg



Battery Dimension: 253*107*68mm
Battery Weight: 3.74Kg

02

SOLID-STATE DRONE BATTERY PACK

- ☑ 25.9V 11-50AH
- ☑ Stronger Thrust
- ☑ Higher Voltage
- ☑ Mid-Power Drone Systems

7s



- **HIGH-POWER DISCHARGE:** It can release a large amount of electrical energy in a short period of time, providing strong power support, enabling the flyer to fly quickly and perform various actions.
- **HIGH ENERGY DENSITY:** It can store more energy in a smaller volume, thereby improving the battery's endurance and usage efficiency.
- **APPLICABLE TYPES:** Mainly applicable to aircraft, especially cruise aircraft and other flying machines that require high power output.
- **MAIN MODELS:** 11000mAh-50000mAh.

7S - LIST OF DRONE BATTERY SERIES

MODEL	VOLTAGE	CAPACITY	SIZE	BATTERY POWER	WEIGHT
7S 11AH	25.9V	11AH	58*66*148mm	284.9Wh	1.21Kg
7S 16AH	25.9V	16AH	57*76*195mm	414.4Wh	1.81kg
7S 22AH	25.9V	22AH	75*76*195mm	569.8Wh	2.34Kg
7S 24AH	25.9V	24AH	76*78*197mm	621.6Wh	2.24Kg
7S 27AH	25.9V	27AH	72*90*213mm	699.3Wh	2.74Kg
7S 28AH	25.9V	28AH	79*77*197mm	725.2Wh	2.31Kg
7S 30AH	25.9V	30AH	78*90*213mm	777Wh	3.09Kg
7S 32AH	25.9V	32AH	79*89*210mm	828.8Wh	2.82Kg
7S 35AH	25.9V	35AH	73*90*213mm	906.5Wh	3.09Kg
7S 39AH	25.9V	39AH	79*90*211mm	1010.1Wh	3.15Kg
7S 50AH	25.9V	50AH	79*107*228mm	1295Wh	4.34Kg



Battery Pack-7S

25.9V 11-50AH Higher Voltage Stronger Thrust Mid-Power Drone Systems

7S

10C 284.9Wh
11000mAh



Battery Dimension: 148*66*58mm
Battery Weight: 1.21Kg

7S

10C 414.4Wh
16000mAh



Battery Dimension: 195*76*57mm
Battery Weight: 1.81Kg

7S

10C 569.8Wh
22000mAh



Battery Dimension: 195*76*75mm
Battery Weight: 2.34Kg

7S

10C 621.6Wh
24000mAh



Battery Dimension: 198*78*76mm
Battery Weight: 2.24Kg

7S

10C 699.3Wh
27000mAh



Battery Dimension: 213*90*72mm
Battery Weight: 2.74Kg

7S

10C 725.2Wh
28000mAh



Battery Dimension: 197*79*77mm
Battery Weight: 2.31Kg

7S

10C 777Wh
30000mAh



Battery Dimension: 213*90*78mm
Battery Weight: 3.09Kg

7S

10C 929.8Wh
32000mAh



Battery Dimension: 210*89*79mm
Battery Weight: 2.82Kg

7S

10C 906.5Wh
35000mAh



Battery Dimension: 213*90*73mm
Battery Weight: 3.09Kg

7S

10C 1010.1Wh
39000mAh



Battery Dimension: 211*90*79mm
Battery Weight: 3.15Kg

7S

10C 1295Wh
50000mAh



Battery Dimension: 228*107*79mm
Battery Weight: 4.34Kg

03

SOLID-STATE DRONE BATTERY PACK

- ⊗ 44.4V 16-50AH
- ⊗ Stable Under Heavy Load Tasks
- ⊗ High Efficiency Output
- ⊗ Heavy-Duty, High-Load & Agriculture



- **HIGH ENERGY DENSITY:** Weight energydensity can reach 350Wh/KG, and volumetricenergy density can reach 720wh/L.
- **HIGH-RATE DISCHARGE:** Maximum support of 120c continuous discharge rate,250C pulse discharge rate.
- **FAST CHARGING:** Charge 80% in 3-5 minutes, fully charged in 10 minutes.
- **HIGH TEMPERATURE PERFORMANCE:** No fire & No swelling when stored at 90°C for 24h.
- **LOW-TEMPERATURE HIGH-POWER DISCHARGE:** Support discharge at -10°C/15c,-20°C/10C,-30°C/5C and -40°C/2C.
- **HIGH POWER AND LONG LIFE:** 5C charge and 15c discharge cycle for 2000 cycles.

12S - LIST OF DRONE BATTERY SERIES

MODEL	VOLTAGE	CAPACITY	SIZE	BATTERY POWER	WEIGHT
12S 16AH	44.4V	16AH	98*76*195mm	710.4Wh	2.97Kg
12S 22AH	44.4V	22AH	130*76*195mm	976.8Wh	3.94kg
12S 24AH	44.4V	24AH	135*77*198mm	1065.6Wh	3.74Kg
12S 27AH	44.4V	27AH	122*90*213mm	1198.8Wh	4.69Kg
12S 28AH	44.4V	28AH	135*77*198mm	1243.2Wh	3.91Kg
12S 30AH	44.4V	30AH	135*90*213mm	1332Wh	5.19Kg
12S 32AH	44.4V	32AH	135*89*210mm	1420.8Wh	4.77Kg
12S 35AH	44.4V	35AH	125*90*213mm	1554Wh	5.19Kg
12S 39AH	44.4V	39AH	135*90*211mm	1731.6Wh	5.30Kg
12S 50AH	44.4V	50AH	135*107*228mm	2220Wh	7.34Kg



Battery Pack-12S

44.4V 16-50AH
High Efficiency Output

Stable Under Heavy Load Tasks
Heavy-Duty, High-Load & Agriculture



Battery Dimension: 195*98*76mm
Battery Weight: 2.97Kg



Battery Dimension: 195*130*76mm
Battery Weight: 3.94Kg



Battery Dimension: 198*135*77mm
Battery Weight: 3.74Kg



Battery Dimension: 213*122*90mm
Battery Weight: 4.69Kg



Battery Dimension: 198*135*77mm
Battery Weight: 3.91Kg



Battery Dimension: 213*135*90mm
Battery Weight: 5.19Kg



Battery Dimension: 210*135*89mm
Battery Weight: 4.77Kg



Battery Dimension: 213*125*90mm
Battery Weight: 5.19Kg



Battery Dimension: 211*135*90mm
Battery Weight: 5.30Kg



Battery Dimension: 228*135*107mm
Battery Weight: 2.31Kg

04

SOLID-STATE DRONE BATTERY PACK

- ⊙ 51.8V 16-50AH
- ⊙ Powerful Discharge Performance
- ⊙ High Voltage
- ⊙ Heavy-Duty, High-Load & Agriculture



14s



- **HIGH ENERGY DENSITY:** Weight energy density can reach 350wh/KG, and volumetric energy density can reach 720wh/L.
- **HIGH-RATE DISCHARGE:** Maximum support of 120c continuous discharge rate, 250C pulse discharge rate.
- **FAST CHARGING:** Charge 80% in 3-5 minutes, fully charged in 10 minutes.
- **HIGH TEMPERATURE PERFORMANCE:** No fire & No swelling when stored at 90°C for 24h.
- **LOW-TEMPERATURE HIGH-POWER DISCHARGE:** Support discharge at -10°C/15c, -20°C/10C, -30°C/5C and -40°C/2C.
- **HIGH POWER AND LONG LIFE:** 5C charge and 15c discharge cycle for 2000 cycles.

14S - LIST OF DRONE BATTERY SERIES

MODEL	VOLTAGE	CAPACITY	SIZE	BATTERY POWER	WEIGHT
14S 16AH	51.8V	16AH	116*76*195mm	828.8Wh	3.36Kg
14S 22AH	51.8V	22AH	150*76*195mm	1139.6Wh	4.54kg
14S 24AH	51.8V	24AH	157*78*200mm	1243.2Wh	4.34Kg
14S 27AH	51.8V	27AH	140*90*213mm	1398.6Wh	5.44Kg
14S 28AH	51.8V	28AH	157*78*200mm	1450.4Wh	4.78Kg
14S 30AH	51.8V	30AH	157*90*213mm	1554Wh	6.09Kg
14S 32AH	51.8V	32AH	157*90*213mm	1657.6Wh	5.52Kg
14S 35AH	51.8V	35AH	145*90*213mm	1813Wh	5.69Kg
14S 39AH	51.8V	39AH	157*90*213mm	2020.2Wh	6.21Kg
14S 50AH	51.8V	50AH	157*108*230mm	2590Wh	8.54Kg



Battery Pack-14S

51.8V 16-50AH
High Voltage

Powerful Discharge Performance
Heavy-Duty, High-Load & Agriculture

14S

10C 1450.4Wh
28000mAh



Battery Dimension: 200*157*78mm
Battery Weight: 4.78Kg

14S

10C 1554Wh
30000mAh



Battery Dimension: 213*157*90mm
Battery Weight: 6.09Kg

14S

10C 828.8Wh
16000mAh



Battery Dimension: 195*116*76mm
Battery Weight: 3.36Kg

14S

10C 1139.6Wh
22000mAh



Battery Dimension: 195*150*76mm
Battery Weight: 4.54Kg

14S

10C 1657.6Wh
32000mAh



Battery Dimension: 213*157*90mm
Battery Weight: 5.52Kg

14S

10C 1813Wh
35000mAh



Battery Dimension: 213*145*90mm
Battery Weight: 5.69Kg

14S

10C 1243.2Wh
24000mAh



Battery Dimension: 200*157*78mm
Battery Weight: 4.34Kg

14S

10C 1398.6Wh
27000mAh



Battery Dimension: 213*140*90mm
Battery Weight: 5.44Kg

14S

10C 2020.2Wh
39000mAh



Battery Dimension: 213*157*90mm
Battery Weight: 6.21Kg

14S

10C 2590Wh
50000mAh



Battery Dimension: 230*157*108mm
Battery Weight: 8.54Kg

05

SOLID-STATE DRONE BATTERY PACK

- ☑ 66.6V 16-50AH
- ☑ Extreme Power Reserve
- ☑ Ultra-High Voltage
- ☑ Large UAVs & High-Demand Missions



18s



● LARGE CAPACITY LONG BATTERY LIFE

- Self-heat At Low Temperature / High Temperature Resistance
- Short-circuit Protection Function / Historical Information Storage
- Supports 2-5c Fast Charging / Health Self-check Function
- Abnormal Records Function / Charge & Discharge Protection Function
- Compatible With All Communication Protocols / Waterproof, dustproof, corrosion-resistance

12S - LIST OF DRONE BATTERY SERIES

MODEL	VOLTAGE	CAPACITY	SIZE	BATTERY POWER	WEIGHT
18S 16AH	66.6V	16AH	147*76*195mm	1065.6Wh	4.29kg
18S 22AH	66.6V	22AH	192*76*195mm	1465.2Wh	5.69Kg
18S 24AH	66.6V	24AH	201*78*204mm	1598.4Wh	5.70Kg
18S 27AH	66.6V	27AH	183*90*213mm	1798.2Wh	6.92Kg
18S 28AH	66.6V	28AH	201*78*204mm	1864.8Wh	5.87Kg
18S 30AH	66.6V	30AH	201*90*213mm	1998Wh	7.81Kg
18S 32AH	66.6V	32AH	201*90*213mm	2131.2Wh	7.32Kg
18S 35AH	66.6V	35AH	185*90*213mm	2331Wh	7.52Kg
18S 39AH	66.6V	39AH	201*90*213mm	2597.4Wh	8.11Kg
18S 50AH	66.6V	50AH	201*108*230mm	3330Wh	11.11Kg



Battery Pack-18S

66.6V 16-50AH
Ultra-High Voltage

Extreme Power Reserve
Large UAVs & High-Demand Missions

18S

10C 1450.4Wh
28000mAh



Battery Dimension: 204*201*78mm
Battery Weight: 5.87Kg

18S

10C 1554Wh
30000mAh



Battery Dimension: 213*201*90mm
Battery Weight: 7.81Kg

18S

10C 828.8Wh
16000mAh



Battery Dimension: 195*147*76mm
Battery Weight: 4.29Kg

18S

10C 1139.6Wh
22000mAh



Battery Dimension: 195*132*76mm
Battery Weight: 5.69Kg

18S

10C 1657.6Wh
32000mAh



Battery Dimension: 213*201*90mm
Battery Weight: 7.32Kg

18S

10C 1813Wh
35000mAh



Battery Dimension: 213*185*90mm
Battery Weight: 7.52Kg

18S

10C 1243.2Wh
24000mAh



Battery Dimension: 204*201*78mm
Battery Weight: 5.70Kg

18S

10C 1398.6Wh
27000mAh



Battery Dimension: 213*183*90mm
Battery Weight: 6.92Kg

18S

10C 2020.2Wh
39000mAh



Battery Dimension: 213*201*90mm
Battery Weight: 8.11Kg

18S

10C 2590Wh
50000mAh



Battery Dimension: 230*201*108mm
Battery Weight: 11.11Kg

06 Intelligent Battery Pack for Drone

Intelligent Drone Battery 14S42AH



PRODUCT PARAMETERS

Item	Parameter
Battery Pack Weight	13kg
Overall Dimensions	324x109x264(mm)
Rated Voltage	51.8V
Rated Capacity	42000mAh
Charging Voltage	60.9V(4.35V/Cell)
USB Load Capacity	5V/1.0A
Operating Temperature (Discharging)	-10°C~60°C
Operating Temperature (Charging)	0°C~45°C
Storage Temperature	-10°C~35°C

Intelligent Drone Battery 14S20AH



PRODUCT PARAMETERS

Item	Parameter
Battery Weight	6.70kg
Overall Dimensions	35.5*112.5*258mm
Rated Voltage	51.8V
Rated Capacity	20000mAh
Rated Energy	1036WH
Nominal Charging Current	1C
Nominal Discharging Current	1C
Maximum Charging Voltage	60.9V 4.2V/Cell
Maximum Discharging Current	10C(200A)
Maximum Continuous Discharge Current	5C (100A)
Maximum Continuous Charge Current	2C
Battery Life	≥600 cycles
Discharging Operating Temperature	-10°C~60°C
Charging Operating Temperature	0°C~55°C
Maximum Charging Voltage:	60.9V (4.2V/Cell)
Operating Temperature (Discharging)	-10°C~60°C
Operating Temperature (Charging)	0°C~45°C
Storage Temperature	-10°C~35°C

Smart Electric 1.0 is compatible with 3kW~6kW chargers



PRODUCT PARAMETERS

Item	Parameter	Remarks
Weight	11.2kg	
Dimensions	400mmX200mmX251mm	
Charging Power	3000W 6000W	Input AC220V Input AC380V
Efficiency	95%	
Power Factor	0.98	
Static Power Consumption	450mA	
Reverse Leakage Current	110uA	
Charging Mode	Two-way Cycle Charging	
Display Mode	LCD Segment Display	
Supported Battery Strings	12S, 14S, 16%, 18S	
Ambient Temperature	-40°C~45°C	

Intelligent Drone Battery 14S28Ah



PRODUCT PARAMETERS

Item	Parameter
Overall Dimensions	175mm×111mm×285mm
Battery Pack Weight	8.5Kg
Rated Capacity	28AH
Rated Energy	1450.4WH
Rated Voltage	51.8V
Working Voltage	42V-60.9V
Nominal Charging Current	1C
Nominal Discharging Current	1C
Maximum Charging Voltage	60.9V 4.2V/Cell
Maximum Discharging Current	10C (280A)
Maximum Continuous Discharging Current	5C (140A)
Maximum Continuous Charging Current	2C (56A)
Battery Life	≥600 cycles
Discharging Operating Temperature	-10°C~60°C
Charging Operating Temperature	0°C~55°C
Storage Temperature	-10°C~35°C

Intelligent Drone Plug-and-Play Battery 14S28Ah



PRODUCT PARAMETERS		
Item	Parameter	
Overall Dimensions	322mm×138mm×238mm	
Battery Pack Weight	10Kg	
Nominal Voltage	51.8V	
Operating Voltage	60.9V (4.35V/Cell)	
Nominal Capacity	28000mAh	
Configuration Scheme	14 串	
Charging	Nominal Charging Current	1C (28A)
	Charging Upper Limit Voltage	60.9V (4.350V/Cell)
	Maximum Continuous Charging Current	2C (56A)
Discharging	Nominal Discharging Current	1C (28A)
	Maximum Continuous Discharging Current	5C (140A)
	Discharging Cut-off Voltage	TYP.3.1V
USB	Load Capacity	5±0.25V /TYP.1.0A
	Current / Voltage Threshold	TYP.200mA/3.75V
Operating Temperature	Discharging	-43°C~65°C
	Charging	0°C~45°C
Battery life	At 25±3°C, 2C charging and 3C discharging, capacity retention ≥80%	≥800 cycles
Storage Conditions	Short-term (Within 1 Month)	T:-20°C~45°C
		RH:≤90%
	Long-term (Within 1 Year)	T:0°C~45°C
		RH:≤70%

Intelligent Drone Plug-in Battery 14S20Ah



PRODUCT PARAMETERS	
Item	Parameter
Battery Weight	6.70kg
Overall Dimensions	235.5*112.5*258mm
Nominal Voltage	51.8V
Nominal Capacity	20000mAh
Rated Energy	1036WH
Nominal Charging Current	1C
Nominal Discharging Current	1C
Maximum Charging Voltage	60.9V 4.2V/Cell
Maximum Discharging Current	10C (200A)
Maximum Continuous Discharging Current	5C (100A)
Maximum Continuous Charging Current	2C
Battery Life	≥600 cycles
Discharging Operating Temperature	-10°C~60°C
Charging Operating Temperature	0°C~55°C
Maximum Charging Voltage	60.9V (4.2V/Cell)
Operating Temperature (Discharging)	-10°C~60°C
Operating Temperature (Charging)	0°C~55°C
Storage Temperature	-10°C~35°C

Intelligent Drone Battery 14S20Ah



PRODUCT PARAMETERS	
Item	Parameter
Battery Weight	6.55kg
Overall Dimensions	168*112*243mm
Rated Voltage	51.8V
Rated Capacity	20000mAh
Rated Energy	1036WH
Nominal Charging Current	1C
Nominal Discharging Current	1C
Maximum Charging Voltage	60.9V 4.35V/Cell
Maximum Discharging Current	10C (200A)
Maximum Continuous Discharging Current	5C (100A)
Maximum Continuous Charging Current	2C
Battery Life	≥600 cycles
Charging Voltage	60.9V (4.35V/Cell)
Operating Temperature (Discharging)	-10°C~60°C
Operating Temperature (Charging)	0°C~55°C
Storage Temperature	-10°C~35°C

Intelligent Drone Battery 12S22Ah



PRODUCT PARAMETERS	
Item	Parameter
Battery Pack Weight	6.2Kg
Overall Dimensions	170*110*237mm
Rated Capacity	22000mAh
Rated Voltage	44.4V
Operating Voltage	36V-50.4V
Nominal Charging Current	1C (22A)
Nominal Discharging Current	1C (22A)
Maximum Charging Voltage	50.4V 4.2V/Cell
Maximum Continuous Charging Current	2C (44A)
Maximum Discharging Current	10C (220A)≤60S
Maximum Continuous Discharging Current	7C (154A)
Battery Life	≥600 cycles
Discharging Operating Temperature	-10°C~60°C
Charging Operating Temperature	0°C~55°C
Storage Temperature	-10°C~35°C