

# 51.8V 28Ah UAV Lithium Battery High Discharge NMC Drone Battery

## Key Specifications

Capacity	28Ah	Voltage	51.8V
Model	UAV-JP328L	Operating Temp	0°C ~ +55°C

## Product Overview

Maximize your drone's flight time and operational efficiency with the UAV-JP328L UAV Lithium Battery. Engineered with advanced NMC (Nickel Manganese Cobalt) chemistry in a compact 14S1P configuration, this 51.8V 28Ah battery pack delivers a nominal energy of 1.45 kWh. Designed specifically for demanding industrial and commercial UAV applications, it provides the robust power output and unwavering reliability required for heavy-lift and extended-duration flights.



## Key Features & Advantages

**High Energy Density:** Utilizing premium NMC chemistry, this battery achieves 1.45 kWh within a lightweight 8.7kg footprint, significantly extending flight times without compromising payload capacity.

**Extreme Discharge Capabilities:** Built for high-torque motor demands, it supports an impressive 140A continuous discharge and a 280A peak discharge (up to 10 seconds), ensuring rapid response and strong power output during critical maneuvers.

**Fast Charging for Maximum Uptime:** Reduce operational downtime with 56A maximum continuous charging and 84A peak charging (up to 30s at 25°C), getting your UAV fleet back in the air faster.

**Intelligent Battery Management:** Integrated with an advanced BMS and CAN bus communication, providing real-time data monitoring and comprehensive alarms for overcharge, over-discharge, and over-current scenarios.

**Rugged & Environmentally Resilient:** Housed in an IP65-rated enclosure, it operates flawlessly in extreme conditions—from high altitudes up to 5000 meters to harsh temperatures ranging from -40°C to +60°C during discharge.

**Extended Cycle Life:** Designed for long-term ROI, delivering over 1000 cycles at a 1C/1C rate, reducing your overall cost per flight hour.

## Certified Safety & Manufacturing Standards

As a direct manufacturer, we prioritize safety and compliance. The UAV-JP328L is strictly engineered according to GB/T 38058-2019, GB 31241-2022, and GB/T 38930-2020 design standards. Furthermore, it holds international RoHS, UL 2054, and UN38.3 certifications, ensuring safe global transit and ultimate trustworthiness in the field.



## Technical Specifications

Model Number	UAV-JP328L
Configuration	14S1P
Chemical Materials	NMC
Nominal capacity (Ah)	28
Nominal energy (kWh)	1.45
Nominal voltage (V)	51.8
Operating voltage range (V)	42 ~ 60.9
Maximum continuous charging current (A)	56
Peak charging current (A)	84@30s/25°C
Maximum continuous discharge current (A)	140
Peak discharge current (A)	280@10s/25°C
Cycle life (times)	1000@1C/1C
Protection function	With overcharge, over discharge and over current protection alarm
Communication function	CAN
Dimensions (mm)	238×129×332
Product weight (Kg)	8.7
Protection level	IP65
Charging temperature (°C)	0°C ~ +55
Discharge temperature (°C)	-40 ~ +60
Storage temperature (°C)	-20 ~ +25
Working altitude (m)	≤5000
Storage humidity (RH%)	5 ~ 95

Design Standards	GB/T 38058-2019、GB 31241-2022、GB/T 38930-2020
Certification Standards	RoHS、UL 2054、UN38.3

## Ideal Applications

Heavy-lift Agricultural Drone  
Aerial Mapping and Surveying UAV  
Industrial Inspection Drone  
Logistics and Delivery UAV