

66.6V 30Ah UAV Lithium Battery UAV-JP330L Smart Drone Battery

Key Specifications

Capacity	30Ah	Voltage	66.6V
Model	UAV-JP330L	Operating Temp	0°C ~ +55

Product Overview

When powering heavy-lift industrial and commercial drones, standard voltage platforms often fall short in delivering the necessary thrust and endurance. The UAV-JP330L is a next-generation, high-voltage (66.6V) smart lithium battery pack designed specifically for professional UAV applications. It delivers exceptional power density, extended flight endurance, and uncompromising reliability for the most demanding aerial missions.



Engineered for Heavy-Lift & Extended Endurance

Built upon a premium NMC (Nickel Manganese Cobalt) chemistry in an optimized 1P18S configuration, the UAV-JP330L packs a massive 1.998 kWh of nominal energy into a 16 kg footprint. This high energy density extends flight durations significantly without adding unnecessary weight to your aircraft's payload.

Key Performance Advantages

- **Extreme High-Rate Discharge:** Engineered for aggressive flight maneuvers and heavy payloads, it supports a maximum continuous discharge current of 240A and a peak discharge of 300A (for up to 30 seconds at 25°C), ensuring stable, fade-free power output.
- **Ultra-Fast Charging Capability:** Minimize ground downtime between flights. The pack supports up to 150A continuous charging and 240A peak charging, enabling rapid turnaround for high-frequency operations.
- **Intelligent Management System:** Featuring a built-in smart BMS with CAN bus communication, it provides flight controllers with real-time telemetry data while offering active alarms and protection against overcharge, over-discharge, and over-current events.
- **All-Weather Reliability (IP65):** Housed in a rugged, IP65-rated enclosure, the UAV-JP330L is fully protected against dust and water ingress. It maintains excellent stability across a wide temperature range, discharging safely from -40°C to +60°C, and operating at working altitudes up to 5000 meters.

Technical Specifications (Model UAV-JP330L)

Review the comprehensive engineering specifications below. As a source manufacturer, LiTRUE POWER strictly adheres to GB/T 38058-2019, GB 31241-2022, and GB/T 38930-2020 design standards. This battery is fully certified with RoHS, UL 2054, and UN38.3 for safe global transit.

Model Number	UAV-JP330L
Configuration	1P18S
Chemical Materials	NMC
Nominal capacity (Ah)	30
Nominal energy (kWh)	1.998
Nominal voltage (V)	66.6
Operating voltage range (V)	54 ~ 78.3
Maximum continuous charging current (A)	150
Peak charging current (A)	240 @ 10s / 25°C
Maximum continuous discharge current (A)	240
Peak discharge current (A)	300 @ 30s / 25°C
Cycle life (times)	1000 @ 1C / 25°C

	protection alarm
Protection function	Overcharge, over discharge and over current
Dimensions (mm)	174 × 272 × 326
Product weight (Kg)	16
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

With its high compatibility and seamless integration capabilities, the UAV-JP330L is the ultimate power solution for:

- Heavy-lift agricultural crop-spraying drones
- High-altitude surveying and mapping UAVs
- Industrial inspection and infrastructure monitoring drones
- Long-endurance logistics and cargo delivery aircraft

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