

51.8V 28Ah Agriculture Drone Battery UAV-JP228L Crop Sprayer Power

Key Specifications

Capacity	28Ah	Voltage	51.8V
Model	UAV-JP228L	Operating Temp	0°C ~ +55°C

Product Overview

Agricultural crop-spraying drones operate under some of the most grueling conditions in the commercial UAV sector. From lifting heavy liquid payloads to enduring scorching summer heat and constant exposure to moisture and chemicals, standard drone batteries simply cannot keep up. LiTrue introduces the UAV-JP228L, a heavy-duty 51.8V 28Ah smart lithium battery specifically engineered for the rigorous demands of smart farming and agricultural plant protection.



Engineered for High-Intensity Crop Spraying

Built with premium NMC chemistry in a robust 1P14S configuration, the UAV-JP228L delivers a solid 1.45 kWh of energy. What truly sets this power unit apart is its exceptional handling of dynamic loads. When a crop-spraying drone takes off with a full pesticide tank, it requires a massive surge of power. This battery supports a peak discharge of 280A (10C) for up to 10 seconds, providing the unwavering thrust required for safe heavy-lift operations and rapid evasive maneuvers.

Key Features & Agricultural Advantages

- **High C-Rate Charge & Discharge:** Capable of up to 10C instant peak discharge to support heavy payloads, and supports 2C fast charging (56A continuous). This rapid turnaround capability is crucial during peak farming seasons, allowing operators to swap, charge, and return to the field instantly.
- **Long Cycle Life for Maximum ROI:** Designed for high-frequency daily agricultural use, it maintains stable performance with a cycle life of ≥ 1000 cycles (at 1C/1C), significantly lowering the total cost of ownership for fleet managers.
- **Intelligent BMS Protection:** Equipped with an advanced CAN-bus Battery Management System (BMS). It provides comprehensive real-time protection against overcharge, over-discharge, and over-current, ensuring total operational safety over crops and personnel.
- **Extreme Temperature Resilience:** Summer agricultural work means intense heat. The UAV-JP228L is thermally optimized to discharge reliably in temperatures up to $+60^{\circ}\text{C}$ (with extreme core tolerance up to $+65^{\circ}\text{C}$), preventing thermal throttling during mid-day spraying missions.
- **High Protection Level (IP65):** Fully sealed with an IP65 rating, the battery is engineered with excellent dustproof and waterproof capabilities, easily resisting muddy fields, morning dew, and corrosive pesticide exposure.

Technical Specifications (Model UAV-JP328L)

As a leading OEM manufacturer, LiTRUE POWER ensures every battery meets the highest global safety and compliance standards, including RoHS, UL 2054, and UN38.3.

Model Number	UAV-JP228L
Configuration	1P14S
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)	172 × 110 × 286
Product weight (Kg)	10
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



Elevate Your Smart Farming Operations

The UAV-JP228L is widely compatible with multi-rotor agricultural drones, seeding UAV, and heavy-lift platforms used in smart farming. If you are a drone manufacturer or a large-scale agricultural service provider, partnering with a reliable power source is your competitive edge.

[Explore our Custom OEM Battery Capabilities](#) or [Contact Us for Pricing and Technical Integration Support](#)

