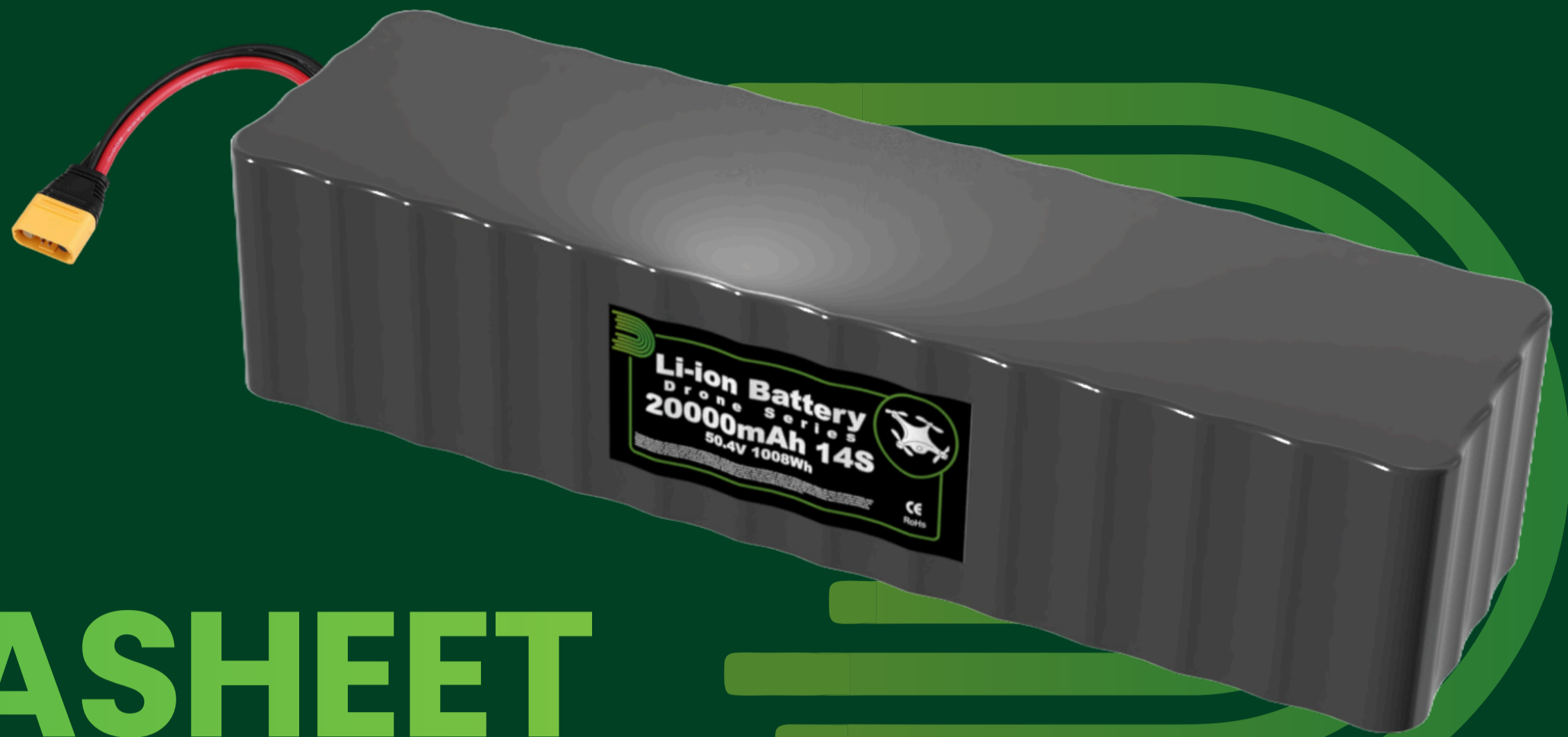




Drone Series

DATASHEET

Li-Ion Drone Battery 14S series



PRODUCT OVERVIEW

Our 14S Li-Ion Drone Battery Series is specifically engineered for high-performance drone applications that demand high energy density, lightweight construction, and exceptional discharge rates. Utilizing premium Samsung INR21700-50S or Molicel INR21700-P50B cells, these batteries deliver reliable power for the most demanding drone operations. Available with or without a smart Battery Management System (BMS) and equipped with various connectors to suit your specific requirements.

APPLICATIONS



Commercial Drones

Agriculture, Cargo, Missions, Tactical

CONNECTORS

For models with Smart BMS:

- AS150U Connector (Power + Communication)

For models without Smart BMS, providing cell balancing capability:

- XT90 Connector (Power)
- Molex Micro-Fit 16-pin Connector (Balancing)

PROTECTION FEATURES

Overcharge Protection
Over-discharge Protection
Overcurrent Protection
Short Circuit Protection
Temperature Monitoring and Protection

COMMUNICATION INTERFACES

CANBUS
RS485
UART

ADDITIONAL FEATURES

State of Charge (SOC) Estimation
Cell Balancing
Remote Monitoring Capability

** The above features apply only for battery models with smart BMS.

M O D E L

TN14S4P-50S-01

TN14S4P-P50B-01

TN14S8P-50S-01

TN14S8P-P50B-01

ELECTRICAL SPECIFICATIONS

Cell Configuration	14S 4P	14S 4P	14S 8P	14S 8P
Nominal Voltage	50.4V	50.4V	50.4V	50.4V
Nominal Capacity	20Ah	20Ah	40Ah	40Ah
Energy	1,008 Wh	1,008 Wh	2,016 Wh	2,016 Wh
Charge Voltage	58.8V	58.8V	58.8V	58.8V
Cut-off Voltage	38V	38V	38V	38V
Energy Density	260 Wh/kg	265 Wh/kg	260 Wh/kg	265 Wh/kg

CURRENT PARAMETERS

Continuous Discharge Current	100A	100A	200A	200A
Max Continuous Discharge Current	180A	240A	360A	480A
Max Continuous Charge Current	24A	120A	48A	240A

PHYSICAL SPECIFICATIONS

Dimensions (L x W x H)	100 x 80 x 350 mm 100 x 72 x 350 mm (no BMS)	100 x 80 x 350 mm 100 x 72 x 350 mm (no BMS)	200 x 80 x 350 mm 200 x 72 x 350 mm (no BMS)	200 x 80 x 350 mm 200 x 72 x 350 mm (no BMS)
Weight	4 kg	4 kg	8 kg	8 kg
Enclosure Material	PVC Shrink Wrap	PVC Shrink Wrap	PVC Shrink Wrap	PVC Shrink Wrap

ENVIRONMENTAL SPECIFICATIONS

PERFORMANCE SPECIFICATIONS

Operating Temperature	Charge: 0°C to 45°C	Cycle Life	1,000 cycles (at 80% Depth of Discharge, 25°C)
	Discharge: -20°C to 60°C	Certifications	CE, UN 38.3, RoHS, IEC 62133
Storage Temperature	Short-term (< 1 month): -20°C to 45°C	Warranty	12 months
	Long-term (> 1 month): 0°C to 25°C		
Humidity	≤ 85% RH		

**GOT QUESTIONS?
GET IN TOUCH WITH US**

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