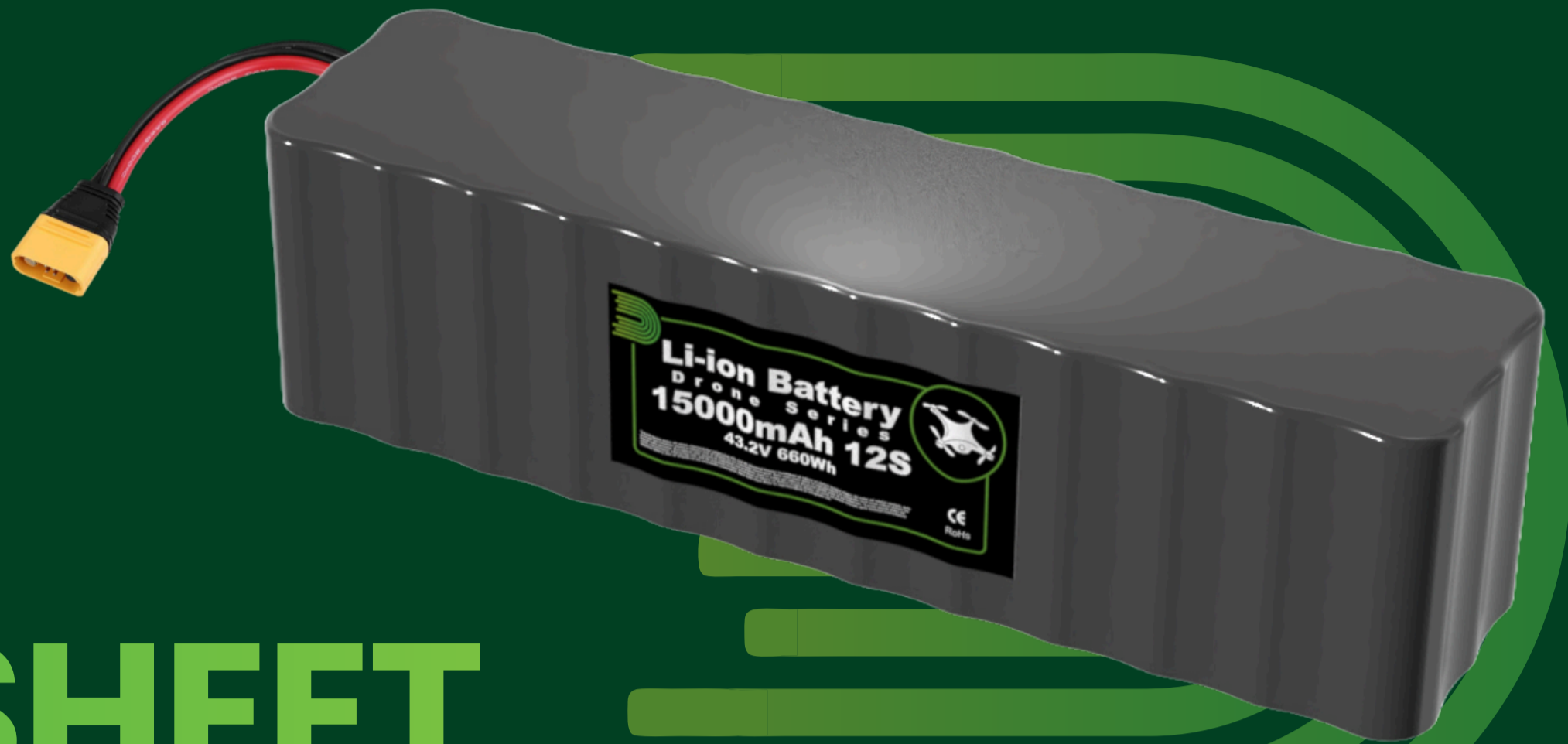




Drone Series

DATASHEET

Li-Ion Drone Battery 6S series



PRODUCT OVERVIEW

Our 6S 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

TN6S1P-50S-01

TN6S1P-P50B-01

TN6S3P-50S-01

TN6S3P-P50B-01

ELECTRICAL SPECIFICATIONS

Cell Configuration	6S 1P	6S 1P	6S 3P	6S 3P
Nominal Voltage	21.6V	21.6 V	21.6V	21.6V
Nominal Capacity	5Ah	5Ah	15Ah	15Ah
Energy	108Wh	108Wh	324Wh	324Wh
Charge Voltage	25.2V	25.2V	25.2V	25.2V
Cut-off Voltage	16.8V	16.8 V	16.8 V	16.8 V
Energy Density	260 Wh/kg	265 Wh/kg	260 Wh/kg	265 Wh/kg

CURRENT PARAMETERS

Continuous Discharge Current	25A	25A	75A	75A
Max Continuous Discharge Current	45A	60A	90A	120A
Max Continuous Charge Current	6A	30A	12A	60A

PHYSICAL SPECIFICATIONS

Dimensions (L x W x H)	25 x 80 x 150 mm 25 x 72 x 150 mm(no BMS)	25 x 80 x 150 mm 25 x 72 x 150 mm(no BMS)	75 x 80 x 150 mm 75 x 72 x 150 mm(no BMS)	75 x 80 x 150 mm 75 x 72 x 150 mm(no BMS)
Weight	0.5 kg	0.5 kg	1.4 kg	1.4 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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