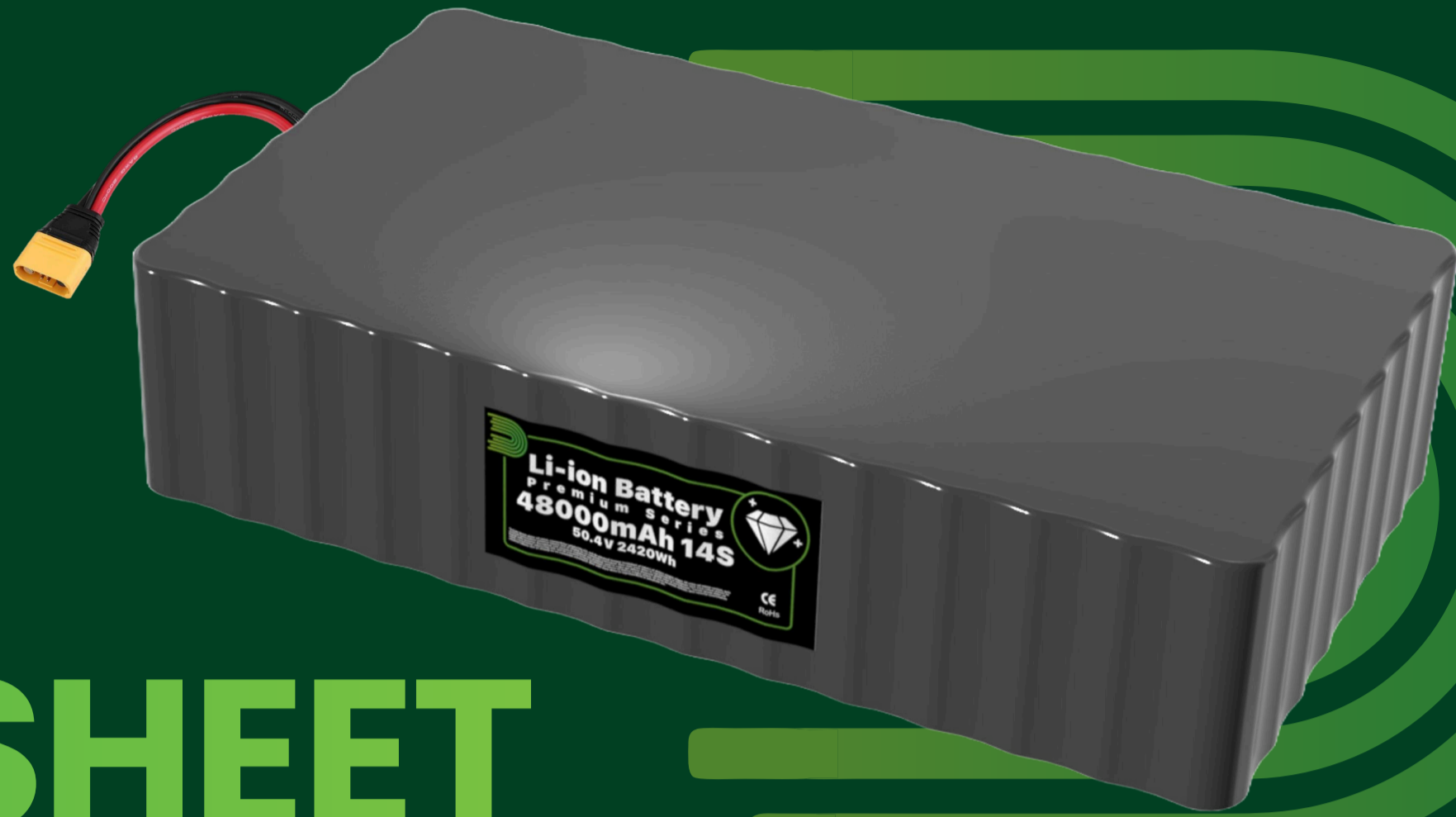




Premium Series

DATASHEET

Premium High Power & Density 14S Series



PRODUCT OVERVIEW

The Premium 14S Series is built for heavy-duty drones, VTOLs, UAVs and professional platforms requiring 60V-class systems for optimised power-to-weight and efficiency. This series uses advanced high-energy cells Reliance INR21700-RS60, pushing boundaries on endurance, payload capacity, and mission distances.

APPLICATIONS



Commercial Drones

Agriculture, Cargo, Missions, Tactical



Robotics

Warehouse, 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-RS60-01

TN14S8P-RS60-01

ELECTRICAL SPECIFICATIONS

Cell Configuration	14S 4P	14S 8P
Nominal Voltage	50.4V	50.4V
Nominal Capacity	24Ah	48Ah
Energy	1,210Wh	2,420Wh
Charge Voltage	58.8V	58.8V
Cut-off Voltage	35V	35V
Energy Density	302 Wh/kg	302 Wh/kg

CURRENT PARAMETERS

Max Continuous Discharge Current	200A (8.3C)	400A (8.3C)
Max Pulse Discharge Current ($\leq 30s$)	320A (13.3C)	640A (13.3C)
Max Charge Current	48A (2C)	96A (2C)

PHYSICAL SPECIFICATIONS

Dimensions (L x W x H)	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)
Weight	4.2 kg	8 kg
Enclosure Material	PVC Shrink Wrap	PVC Shrink Wrap

ENVIRONMENTAL SPECIFICATIONS

PERFORMANCE SPECIFICATIONS

Operating Temperature	Charge: -20°C to 60°C	Cycle Life	~500-700 cycles to ~65-70% capacity (25°C)
	Discharge: -40°C to 80°C	Designed to Meet	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	$\leq 85\%$ RH		

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

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