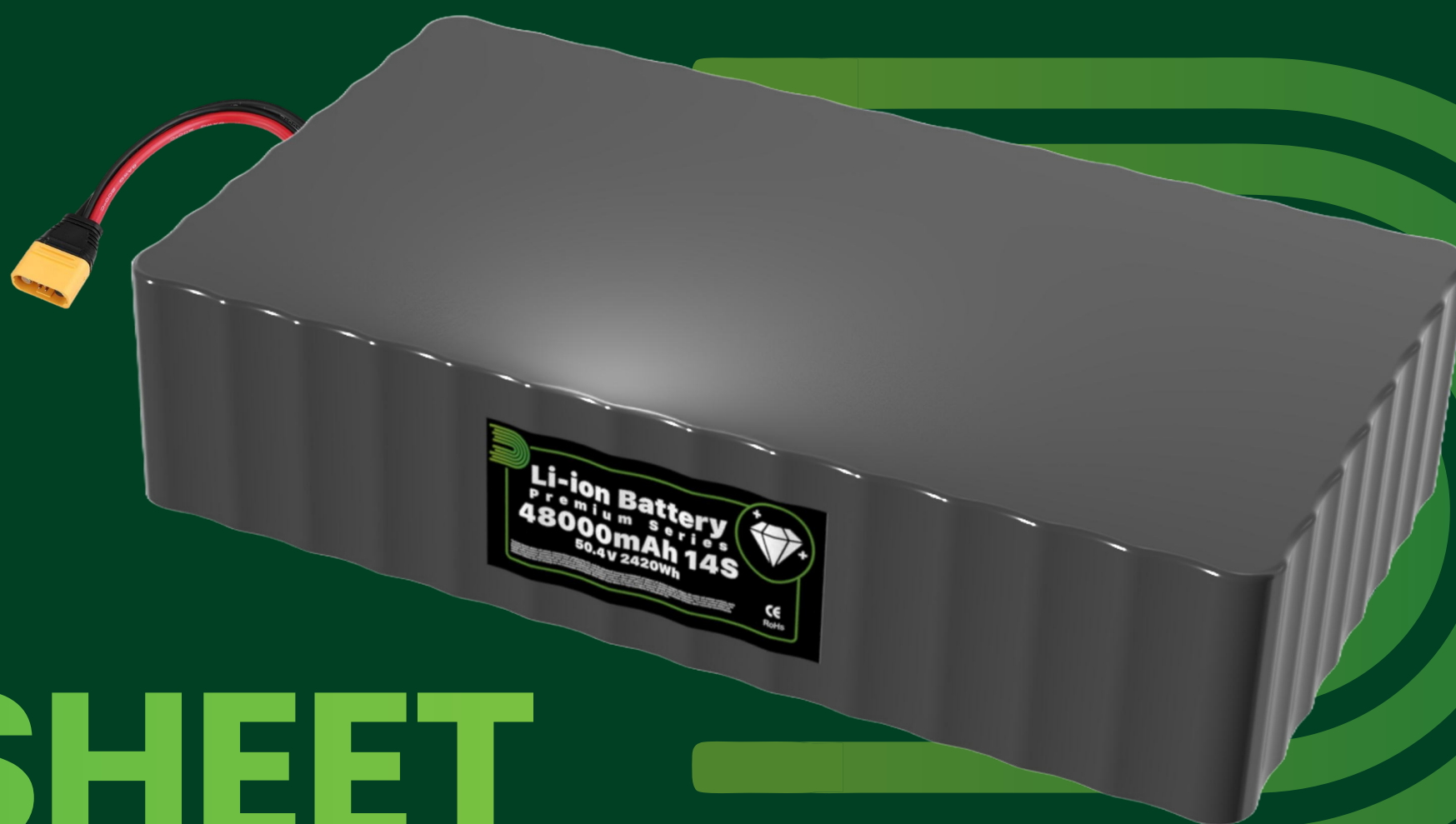




Premium Series

DATASHEET

Premium High Density 14S Series



PRODUCT OVERVIEW

The Premium High Density 14S Series is built for heavy-duty drones, VTOL UAVs and professional platforms requiring 60V-class systems for optimized power-to-weight and efficiency. This series uses advanced high energy cells (Amprius SA17 & Molicel M65A), pushing boundaries on endurance, payload capacity, and mission distances.

APPLICATIONS



Commercial Drones

Agriculture, Cargo, Missions, Tactical



Robotics

Warehouse, Cargo, Missions, Tactical

PROTECTION FEATURES

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

COMMUNICATION INTERFACES

CANBUS
RS485
UART

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)

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-SA17-01	TN14S4P-M65A-01	TN14S8P-SA17-01	TN14S8P-M65A-01
ELECTRICAL SPECIFICATIONS				
Cell Configuration	14S 4P	14S 4P	14S 8P	14S 8P
Nominal Voltage	50.4 V	50.4 V	50.4 V	50.4 V
Nominal Capacity	24 Ah	26 Ah	48 Ah	52 Ah
Energy	1,210 Wh	1,310 Wh	2,420 Wh	2,620 Wh
Charge Voltage	58.8 V	58.8 V	58.8 V	58.8 V
Cut-off Voltage	35 V	35 V	35 V	35 V
Energy Density	300 Wh/kg	322 Wh/kg	300 Wh/kg	322 Wh/kg
CURRENT PARAMETERS				
Max Continuous Discharge Current	72 A (3C)	104 A (4C)	144 A (3C)	208 A (4C)
Max Pulse Discharge Current (≤30s)	120 A (5C)	156 A (6C)	240 A (5C)	312 A (6C)
Max Charge Current	24 A (1C)	26 A (1C)	48 A (1C)	52 A (1C)
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	~600 cycles @0.5C/-1C ~500 cycles @1C/1C	
	Discharge: -20°C to 60°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	≤85% RH			

GOT QUESTIONS?
GET IN TOUCH WITH US

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