



# DATASHEET

## Premium High Power 6S Series

### PRODUCT OVERVIEW

The Premium High Power 6S Series is engineered for the most demanding drone applications where exceptional discharge capability and power delivery are required.

Using the industry-leading Molicel INR21700-P50S, these batteries are tailored for racing drones, heavy-lift multi-copters, or power-intensive hybrid UAVs.

### 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			
		TN6S1P-P50S-01	TN6S3P-P50S-01
ELECTRICAL SPECIFICATIONS			
Cell Configuration		6S 1P	6S 3P
Nominal Voltage		21.6V	21.6V
Nominal Capacity		5Ah	15Ah
Energy		108Wh	324Wh
Charge Voltage		25.2V	25.2V
Cut-off Voltage		15V	15V
Energy Density		260 Wh/kg	260 Wh/kg
CURRENT PARAMETERS			
Max Continuous Discharge Current		60 A (12C)	180 A (12C)
Max Pulse Discharge Current (≤30s)		100 A (20C)	300 A (20C)
Max Charge Current		25 A (5C)	75 A (5C)
PHYSICAL SPECIFICATIONS			
Dimensions (L x W x H)		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)
Weight		0.5 kg	1.4 kg
Enclosure Material		PVC Shrink Wrap	PVC Shrink Wrap
ENVIRONMENTAL SPECIFICATIONS		PERFORMANCE SPECIFICATIONS	
Operating Temperature	Charge: 0°C to 45°C	Cycle Life	~300–400 cycles typical @high C
	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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