

Product Highlights

Advanced Silicon/Graphite anode coupled with latest NMC cathode technology provides outstanding power delivery, even at -10°C

Extended cycle life with protection circuit and optimized cell selection

Power connector options - XT90, XT60, or custom requests

UN 38.3 Approved in a CONUS ISO 17025 accredited test facility

Premium quality from an AS 9100 production facility

Manufactured in an AS 9100 American facility, MPS Series Lithium-ion batteries provide the highest levels of performance as well as protection from over-voltage, over-current, over-temperature, and short circuit conditions. Leveraging the Molycell INR-21700-P50B high power cell and our custom Battery Management System (BMS), this 6S1P battery delivers the highest current, extended cycle life, rugged packaging, premium quality, and UN 38.3 agency approvals.



Electrical Specifications & Approvals

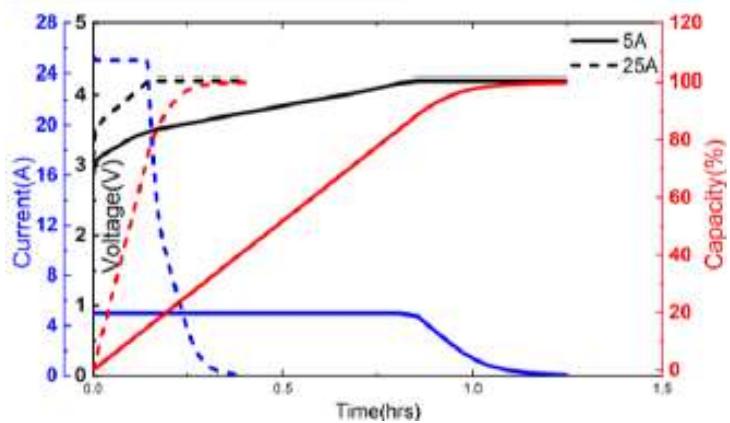
Nominal Voltage (V)	43.2
Minimum Voltage (V)	30
Nominal Capacity (Ah)	5
Continuous Discharge Current (A)	60
Pulse Discharge Current, 3 sec's (A)	90
Maximum Charge Voltage (V)	50.4
Maximum Charging Current (A)	25
Watt-Hours (Wh)	216
Shipping Classification	Class 9
Agency Approvals	UN 38.3

Mechanical Specifications

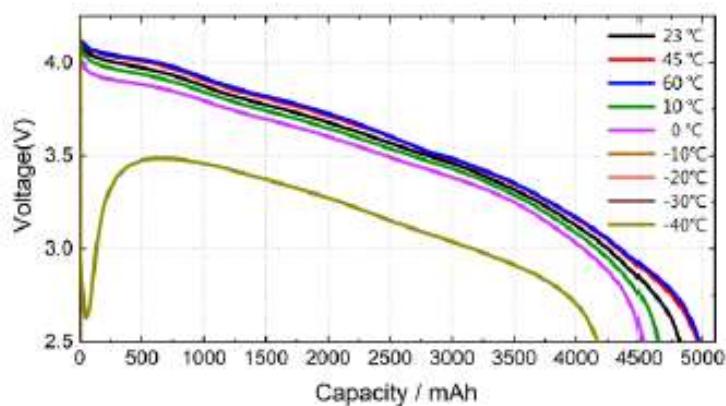
Weight (g)	872
Dimensions (length, mm)	254
Dimensions (width, mm)	23
Dimensions (height, mm)	75
Energy Density (Volumetric, Wh/l)	489
Energy Density (Gravimetric, Wh/kg)	242
Operating Temperature Range	-20°C to +60°C
Storage Temperature Range	-40°C to +60°C
Operating Humidity	20% to 80%
Power Connector	..., XT60, XT90
Charging Balance Connector	JST-XH 12S
Part Numbers	6S1P-M-XT60, 6S1P-M-XT90

Performance Charts

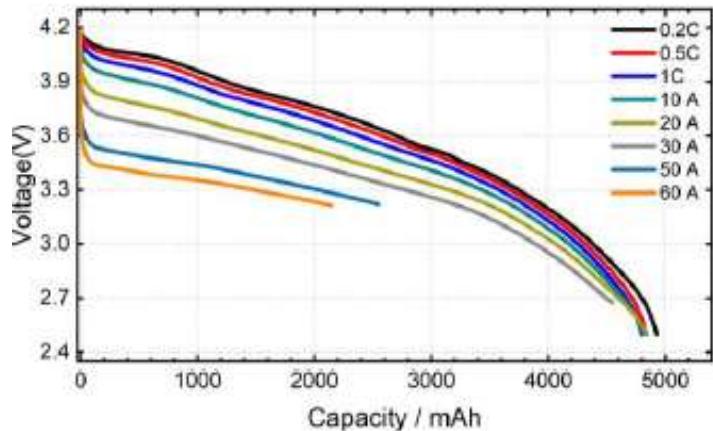
■ Charge Characteristics



■ Discharge Temperature Characteristics



■ Discharge Rate Characteristics



■ Cycle Characteristics

