Technical Data Sheet

25 V 9 Ah NMC Lithium Battery



Reference | SP25009S1

Technical Specifications

Product reference: SP25009S1
Technology: Nickel Manganese Cobalt
Nominal voltage: 25.2 V
Minimum capacity: 9 Ah
Energy: 227 Wh
Charging voltage: 29.4 V
Standard charge current: 3 A
Rapid charge current: 4.5 A
Continuous discharge: 20 A
Pulse discharge: 40 A (1 s)
Self-discharge: <3% / month
Operating temperature: -20 to +60 °C
Charging temperature: 0 to +45 °C
Cycle life: 1,000 at 0.5C, 100% DOD

Battery Management System (BMS)

· Short-circuit protection
· Overcharge protection: 50 A ± 3 A
· Deep discharge protection (<18 V)
· Overtemperature protection (>65 °C)
· Battery disconnected for protection; reconnects automatically
· Cell balancing

Connection

2 wires, 200 mm long

Weight: 1.47 kg

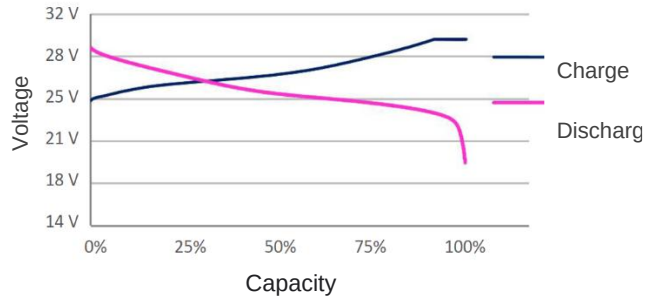
Dimensions: 149 × 125 × 54 mm

IP50 (no protection against water)

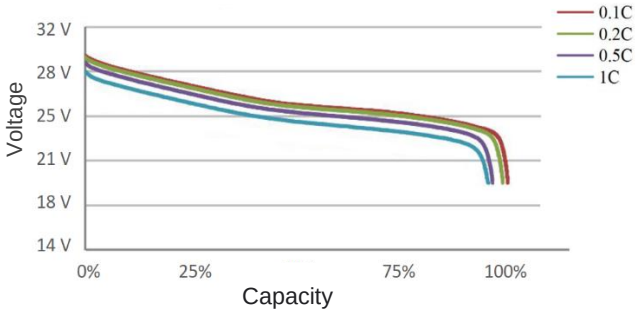
CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

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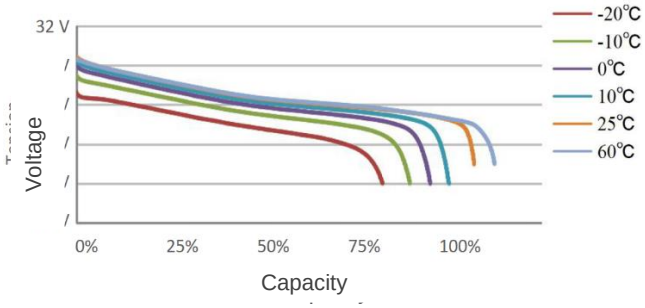
Charge / discharge at 0.5C



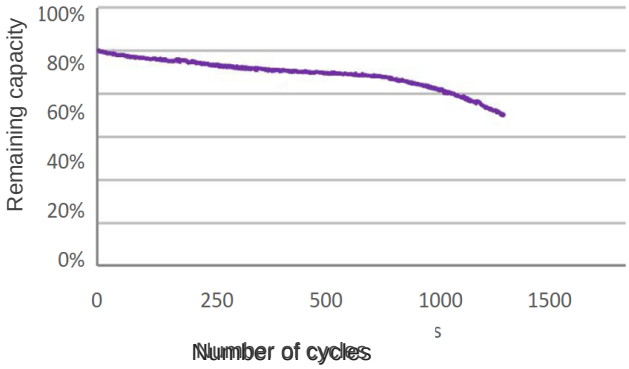
Discharge at various currents



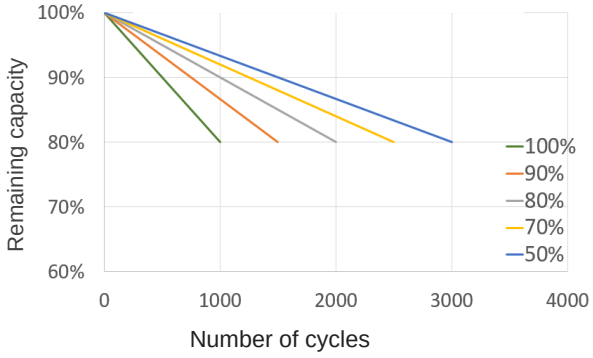
Discharge at various temperatures



Cycle life at 100% DOD



Cycle life vs DOD



Self-discharge vs storage

