Technical Data Sheet

25 V 2.6 Ah NMC Lithium Battery



Product reference | SP25002S2

Technical Specifications

Product reference: SP25002S2
Technology: Nickel Manganese Cobalt (NMC)
Nominal voltage: 25.2 V
Minimum capacity: 2.6 Ah
Energy: 65 Wh
Charging voltage: 29.4 V
Maximum charge current: 1 A
Continuous discharge current: 5 A
Pulse discharge current: 6 A (10 s)
Self-discharge: < 3% per month
Operating temperature: -20°C to +60°C
Charging temperature: 0°C to +45°C
Cycle life: 1,000 at 0.5C, 100% DoD

Battery Management System (BMS)

- Short-circuit protection
- Overcharge protection: 18 A ± 6 A
- Deep-discharge protection: voltage < 18 V
- Overtemperature protection: > 65°C
- Battery disconnects for protection and automatically reconnects after recovery
- Cell balancing

Connection

Two 150 mm leads with an Anderson PP30 connector

Weight: 350 g

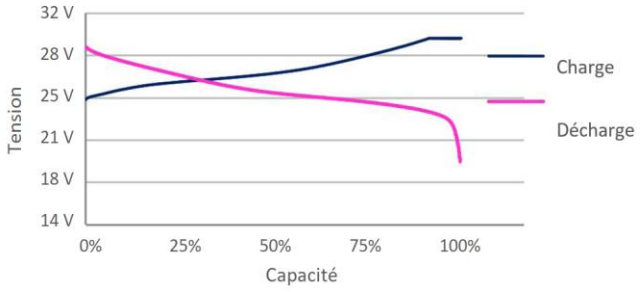
Dimensions: 134 (L) × 74 (W) × 30 (H) mm

IP50 (no protection against water ingress)

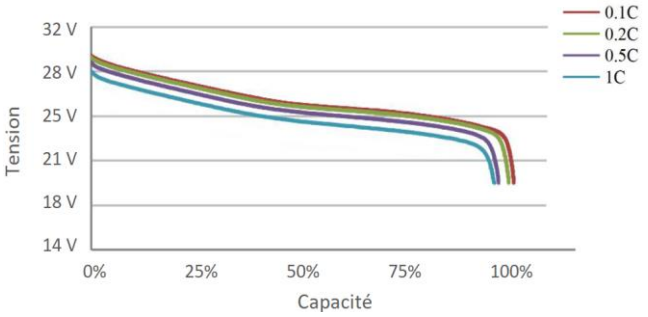
CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

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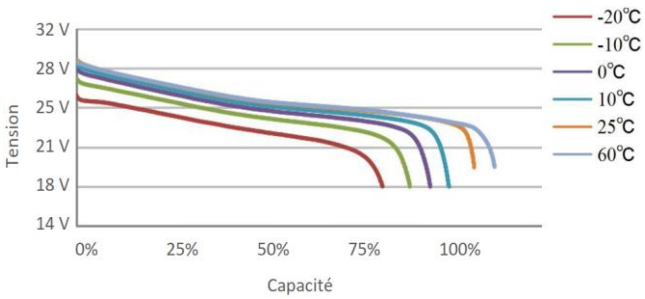
Charge and discharge at 0.5C



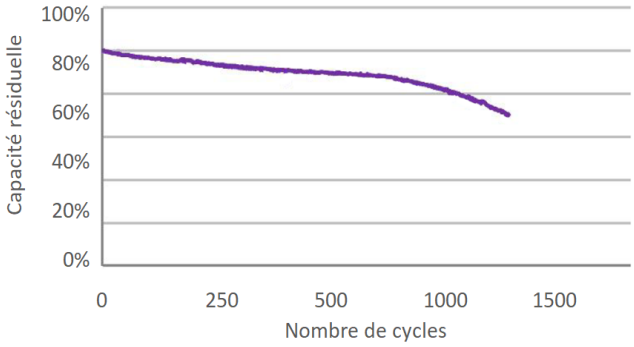
Discharge at different currents



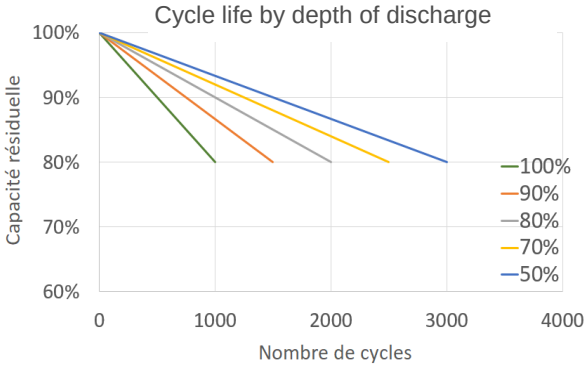
Discharge at different temperatures



Cycle life at 100% DoD



Cycle life by depth of discharge



Self-discharge vs storage temperature

