Technical Data Sheet

25 V 5 Ah NMC Lithium Battery



Reference | SP25005N3

Technical Specifications

Product reference: SP25005N3
Technology: Nickel Manganese Cobalt
Nominal voltage: 25.2 V
Minimum capacity: 5 Ah
Energy: 125 Wh
Charging voltage: 29.4 V
Standard charge current: 1.5 A
Fast charge current: 2 A
Continuous discharge: 6 A
Pulse discharge: 8 A (1 s)
Self-discharge: <3% / 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: 15 A ± 3 A
- ✓ Deep-discharge protection: voltage <18 V
- ✓ Overtemperature protection: above 65°C
- ✓ Battery disconnect protection; automatic reconnection
- ✓ Cell balancing

Connection

Two 10 mm leads with Anderson PP30 connector

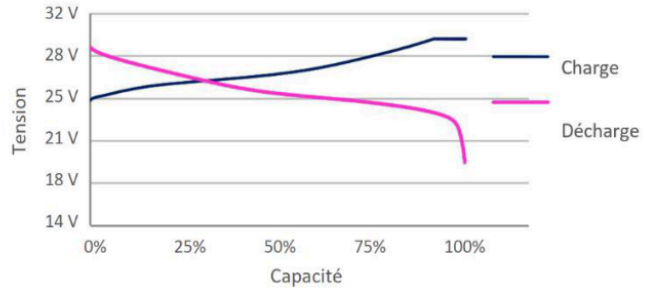
Weight: 650 g
Dimensions: 115 (L) × 60 (W) × 85 (H) mm

IP50 (no protection against water ingress)

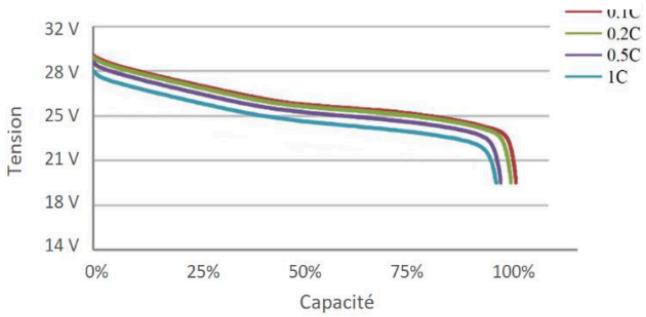
CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

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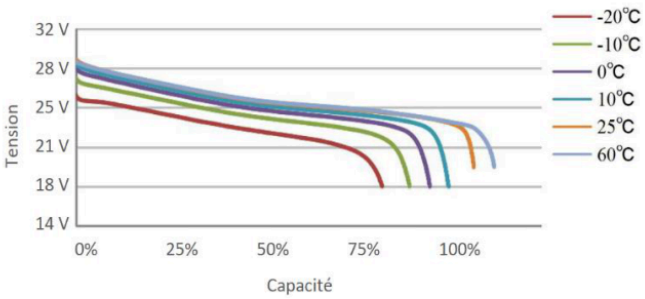
Charge and discharge at 0.5C



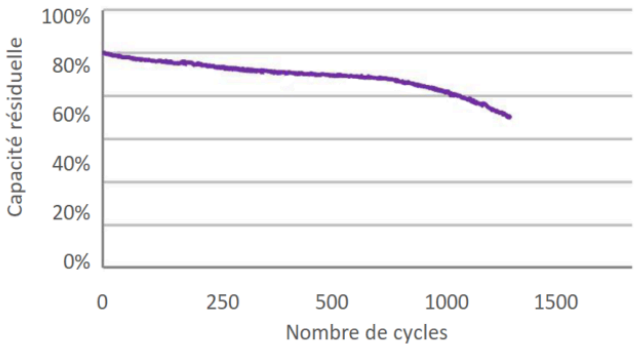
Discharge at different currents



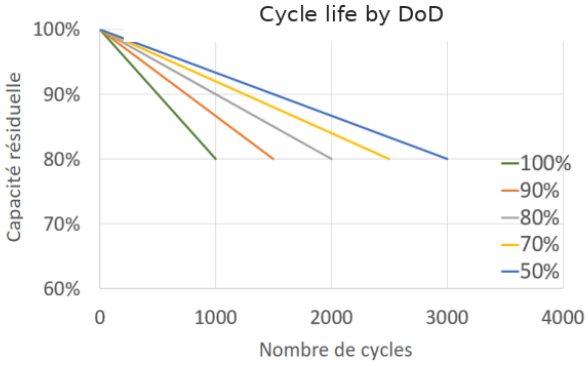
Discharge at different temperatures



Cycle life at 100% DoD



Cycle life by DoD



Self-discharge by storage temperature

