SOLiSE

Technical Data Sheet

25 V 21 Ah NMC Lithium Battery



Reference | SP25021N1

Technical Specifications

Product reference: SP25021N1
Technology: Nickel Manganese Cobalt
Nominal voltage: 25.2 V
Minimum capacity: 20.8 Ah
Energy: 524 Wh
Charging voltage: 29.4 V
Standard charge current: 5 A
Rapid charge current: 12 A
Continuous discharge current: 12 A
Pulse discharge current: 14 A (1 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 0.2 C, 100% DOD

Battery Management System (BMS)

✓ Short-circuit protection
✓ Overload protection: 60 A ± 20 A
✓ Deep-discharge protection, voltage <18 V
✓ High-temperature protection: >65°C ± 5°C
✓ Protection by battery shut-off; automatic reconnection after the fault is cleared
✓ Cell balancing

Connection

Two 200 mm wires with Anderson PP30 connector

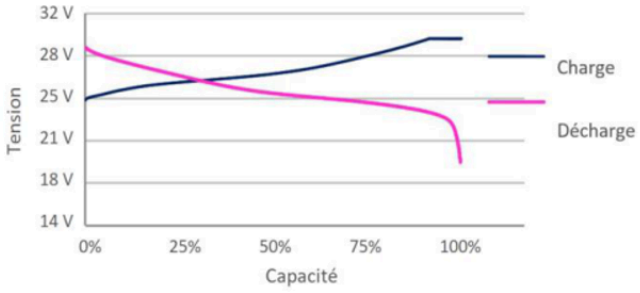
Weight: 2.7 kg
Dimensions: 155 (L) × 80 (W) × 135 (H) mm

IP50 (no protection against water ingress)

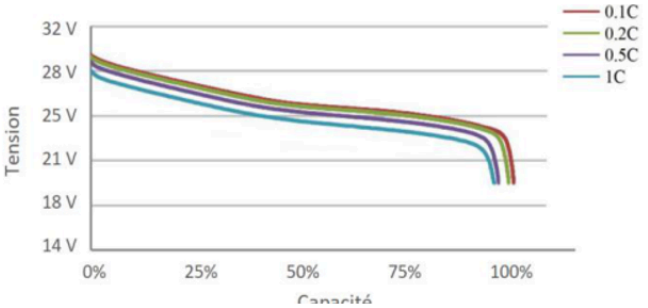
CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

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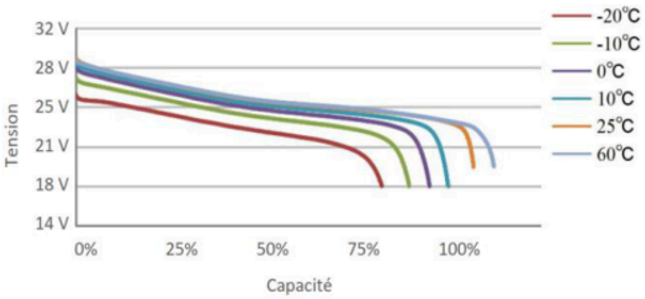
Charge and discharge at 0.5 C



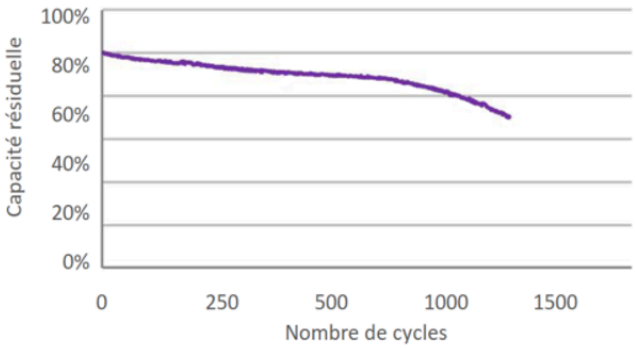
Discharge at different currents



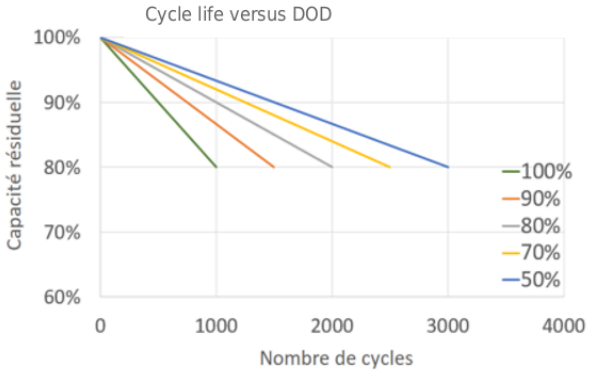
Discharge at different temperatures



Cycle life at 100% DOD



Cycle life versus DOD



Self-discharge by storage temperature

