Technical Data Sheet

12 V 9 Ah LiFePO4 Lithium Battery



Reference | B12009L

Technical Specifications

Product reference: B12009L
Technology: Lithium Iron Phosphate
Nominal voltage: 12.8 V
Minimum capacity: 9 Ah
Energy: 115 Wh
Charging voltage: 14.6 V
Standard charging current: 5 A
Fast charging current: 9 A
Continuous discharge current: 15 A
Pulse discharge current: 25 A (3 s)
Self-discharge: < 3% per month
Operating temperature: -20°C to +60°C
Charging temperature: 0°C to +45°C
Cycle life: 2,000 at 1C, 100% DOD

Battery Management System (BMS)

- ✓ Short-circuit protection
- ✓ Overcharge protection: 30 A ± 10 A
- ✓ Deep-discharge protection: voltage < 8 V
- ✓ Overtemperature protection (> 65°C)
- ✓ Battery cut-off and automatic reconnection
- ✓ Cell balancing

Connection

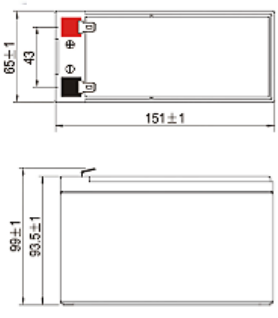
Faston terminal

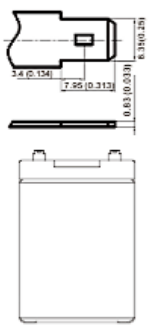
Weight: 1.1 kg

Dimensions: 150 (L) × 65 (W) × 94 (H) mm

IP51 (protected against vertically falling water drops)

CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

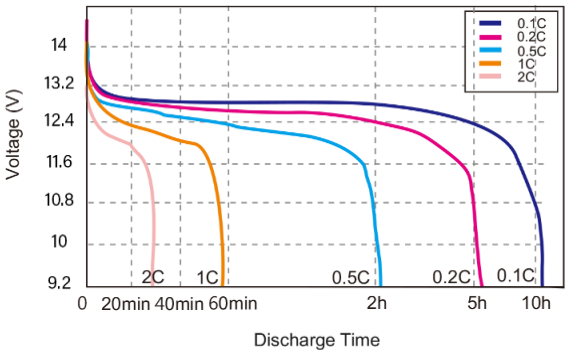




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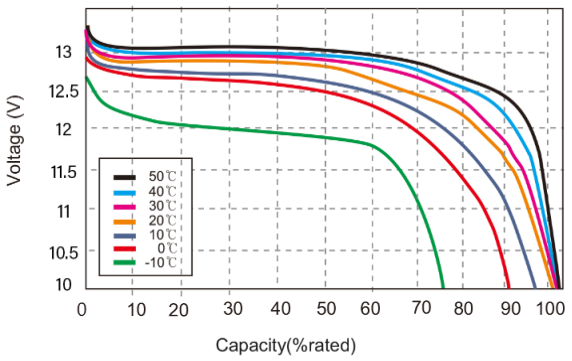
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



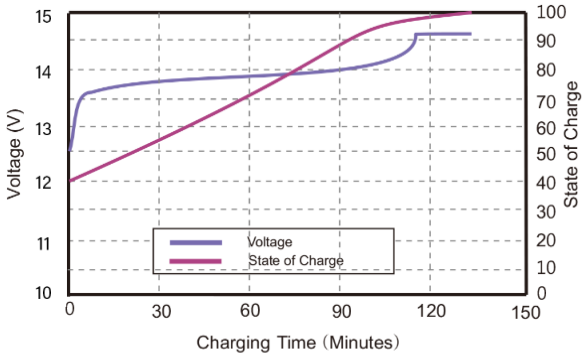
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



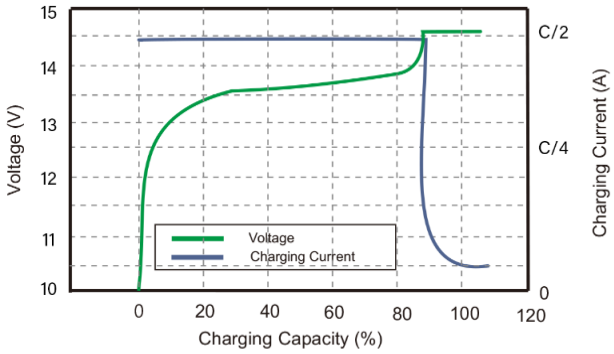
State of Charge Curve

State of Charge Curve @0.5C 25℃



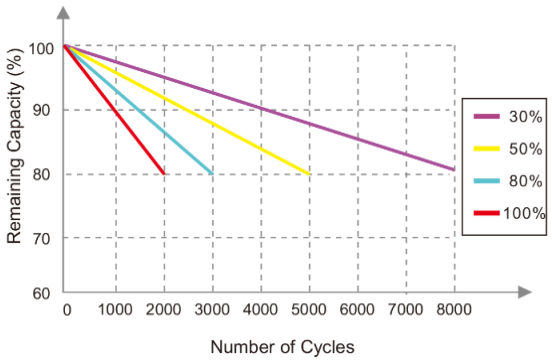
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

