Technical Data Sheet

12 V 3.8 Ah LiFePO4 Lithium Battery



Reference | B12003L

Technical Specifications

Product reference: B12003L
Technology: Lithium Iron Phosphate
Nominal voltage: 12.8 V
Minimum capacity: 3.8 Ah
Energy: 48 Wh
Charging voltage: 14.4 V
Standard charging current: 2 A
Fast charging current: 3 A
Continuous discharge current: 8 A
Pulse discharge current: 12 A (max. 1 min)
Self-discharge: < 3% / 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 by BMS

- ✓ Short-circuit protection
- ✓ Overcharge protection
- ✓ Deep-discharge protection (voltage below 8 V)
- ✓ Overtemperature protection (above 65°C)
- ✓ Automatic battery disconnection and reconnection
- ✓ Cell balancing

Connection

30 cm leads with Anderson PP30 connector

Weight: 380 g
Dimensions: 107 (L) x 78 (W) x 27 (H) mm

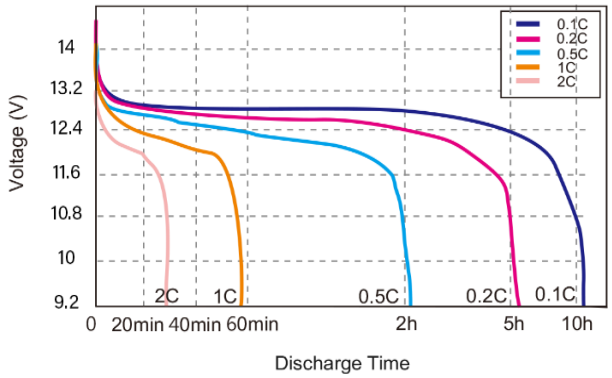
IP50 (no protection against water ingress)

CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

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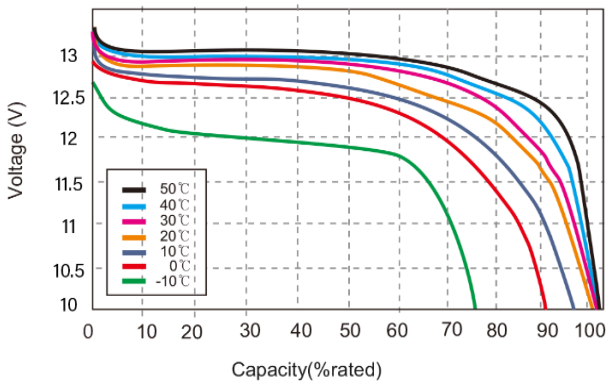
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



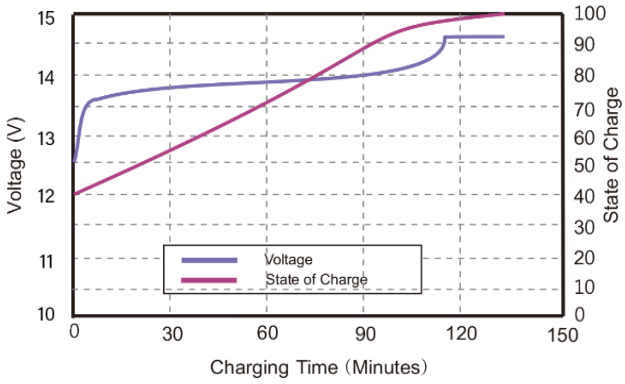
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



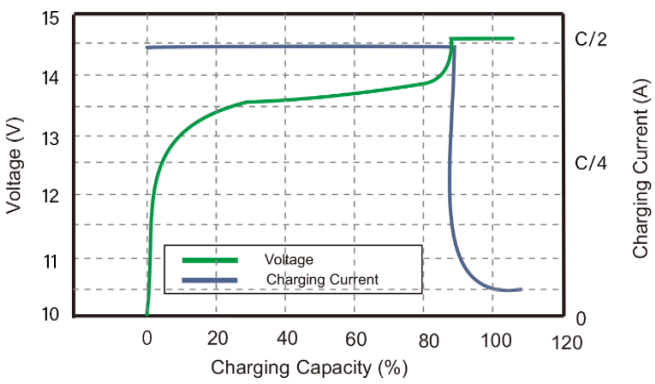
State of Charge Curve

State of Charge Curve @0.5C 25℃



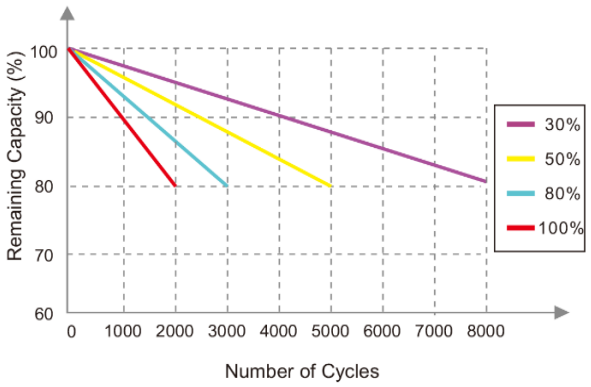
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

