Technical Data Sheet

6 V 7 Ah LiFePO4 Lithium Battery



Reference | B06007

Technical Specifications

Product reference: B06007
Technology: Lithium Iron Phosphate
Nominal voltage: 6.4 V
Minimum capacity: 7 Ah
Energy: 44.8 Wh
Charging voltage: 7.3 V
Standard charging current: 1.5 A
Fast charging current: 3 A
Continuous discharge current: 10 A
Pulse discharge current: 13 A (max. 5 min)
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
- ✓ Deep-discharge protection (voltage < 5 V)
- ✓ Overtemperature protection (> 65°C)
- ✓ Battery cut-off and automatic reconnection
- ✓ Cell balancing

Connection

30 cm leads with Anderson PP30 connector

Weight: 380 g

Dimensions: 77 (L) x 39 (W) x 79 (H) mm

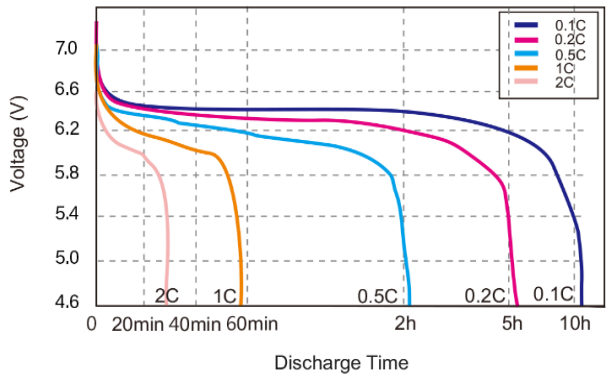
IP50 (no protection against water ingress)

CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

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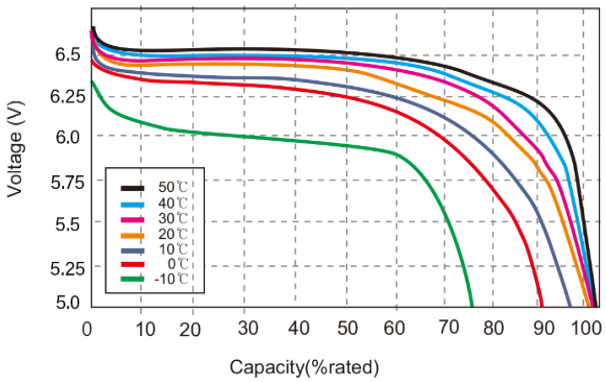
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



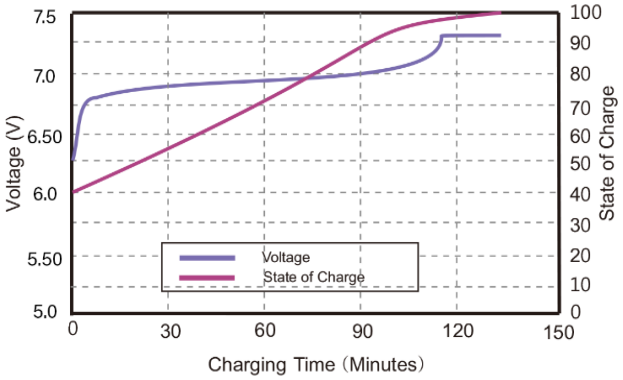
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



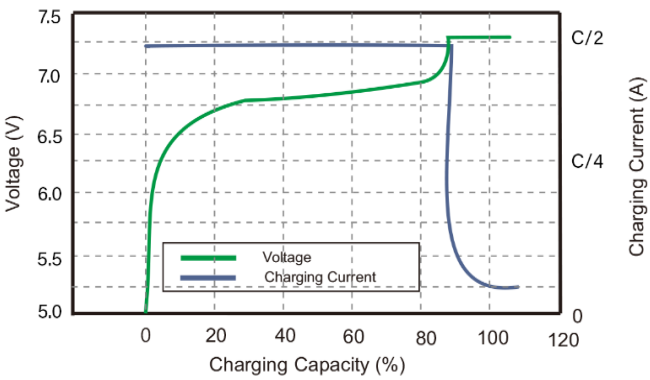
State of Charge Curve

State of Charge Curve @0.5C 25℃



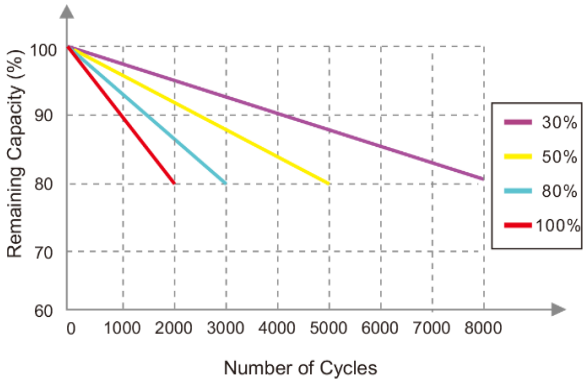
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

