Technical Data Sheet

6 V 3 Ah LiFePO4 Lithium Battery



Reference | B06003

Technical Specifications

Product Reference: B06003
Technology: Lithium Iron Phosphate
Nominal Voltage: 6.4 V
Minimum Capacity: 3.2 Ah
Energy: 20 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% / month
Discharge 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 disconnect protection with automatic reconnection
- ✓ Cell balancing

Connection

30 cm wires with Anderson PP30 connector

Weight: 240 g

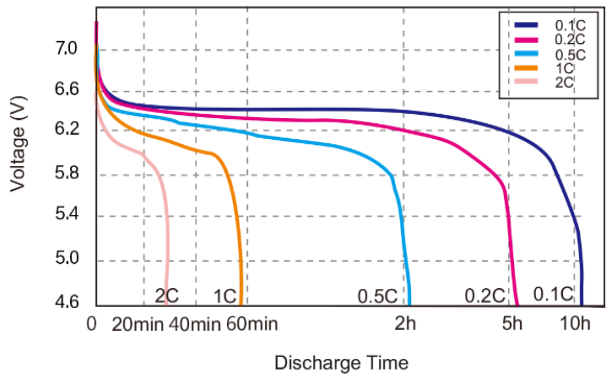
Dimensions: 60 (L) x 33 (W) x 78 (H) mm

IP50 (no protection against water ingress)

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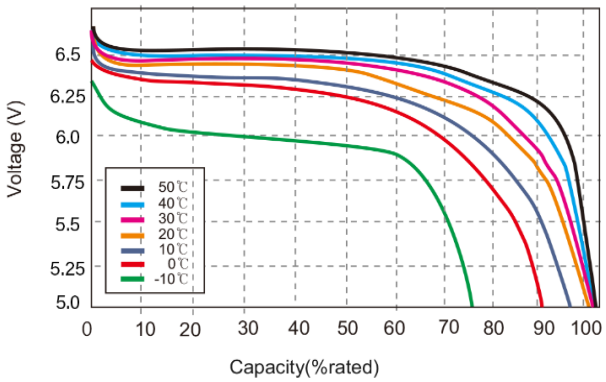
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



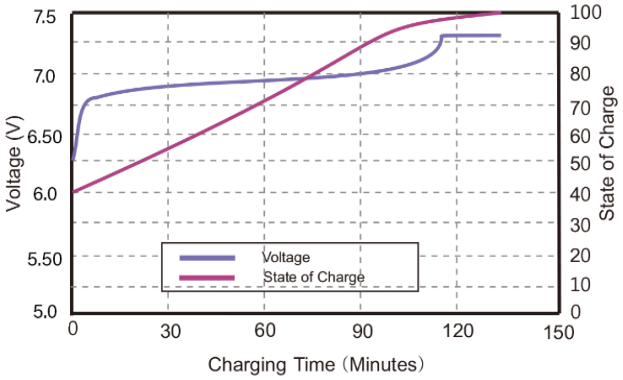
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



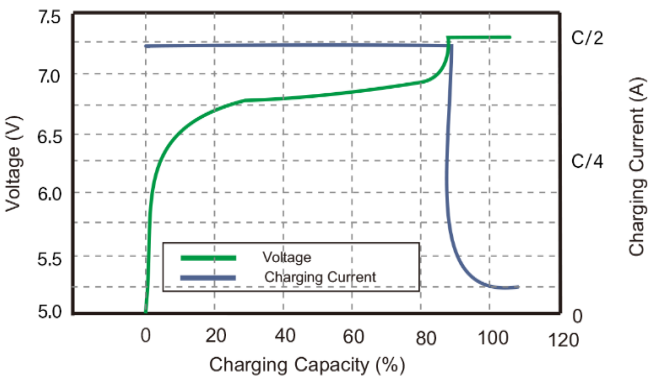
State of Charge Curve

State of Charge Curve @0.5C 25℃



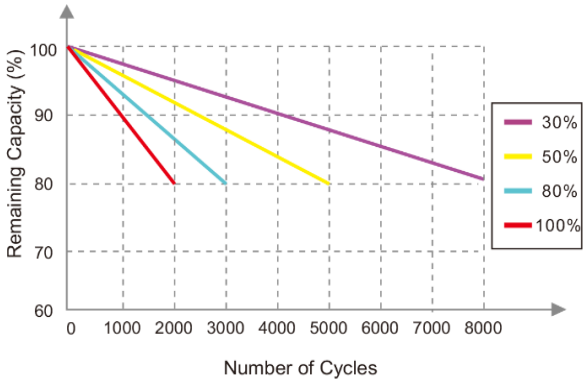
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

