Technical Data Sheet

12 V 68 Ah LiFePO4 Lithium Battery



Reference | B12068L

Technical Specifications

Product Reference : B12068L
Chemistry : Lithium Iron Phosphate
Nominal Voltage : 12.8 V
Minimum Capacity : 68 Ah
Energy : 870 Wh
Charging Voltage : 14.6 V
Standard Charge Current : 20 A
Fast Charge Current : 35 A
Continuous Discharge Current : 70 A
Pulse Discharge Current : 80 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)

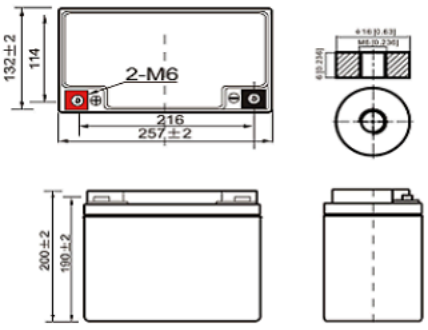
- ✓ Short-circuit protection
- ✓ Overcharge protection: 120 A ± 10 A
- ✓ Deep-discharge protection: voltage < 8 V
- ✓ High-temperature protection: > 65°C
- ✓ Protection disconnects the battery; reconnection is automatic
- ✓ Cell balancing

Connection

M8 screw terminals

Weight :8.1 kg
Dimensions : 257 (L) × 132 (W) × 200 (H) mm

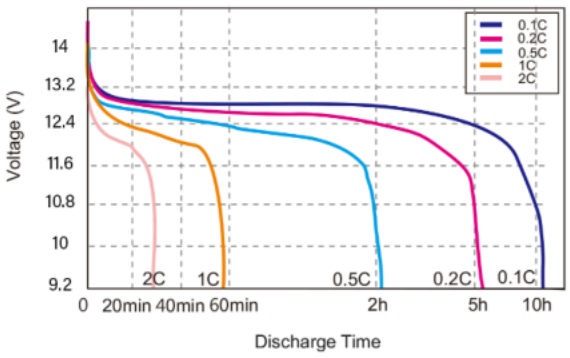
IP51 (protection against vertically falling water droplets)



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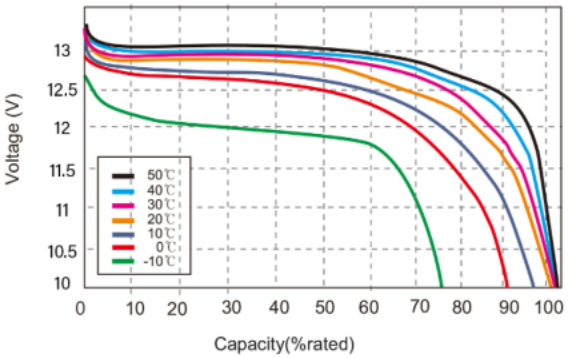
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



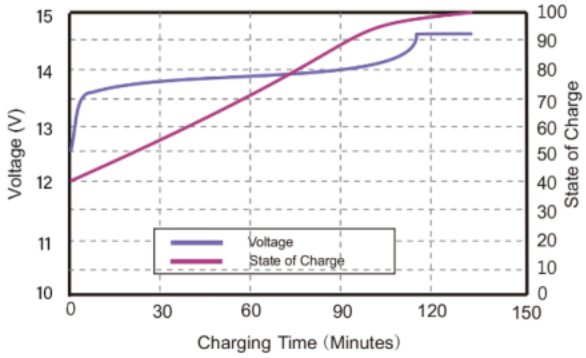
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



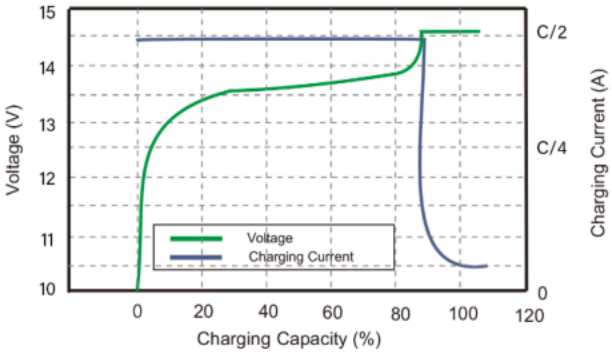
State of Charge Curve

State of Charge Curve @0.5C 25℃



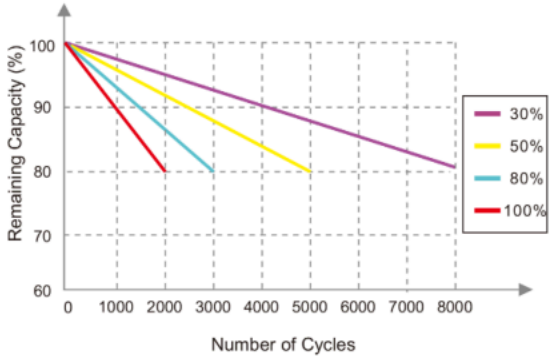
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

