Technical Data Sheet

12 V 121 Ah LiFePO4 Lithium Battery



Reference | B12121L

Technical Specifications

Product Reference: B12121L
Technology: Lithium Iron Phosphate
Nominal Voltage: 12.8 V
Minimum Capacity: 121 Ah
Energy: 1,556 Wh
Charging Voltage: 14.6 V
Standard Charge Current: 60 A
Fast Charge Current: 100 A
Continuous Discharge Current: 100 A
Pulse Discharge Current: 140 A (3 s)
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 System (BMS)

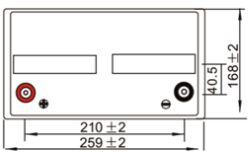
- ✓ Short-circuit protection
- ✓ Overcharge protection (250 A ± 10 A)
- ✓ Deep-discharge protection
  Cut-off voltage < 8 V
- ✓ High-temperature protection
  Cut-off temperature > 65°C
- ✓ Battery disconnect protection;
  automatic reconnection
- ✓ Cell balancing

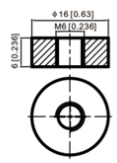
Connection

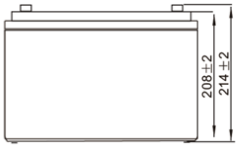
M8 screw terminals

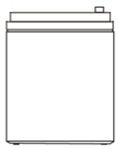
Weight: 13.5 kg
Dimensions:259 (L) x 168 (W) x 214 (H) mm

IP51 (protection against vertically
falling water droplets)





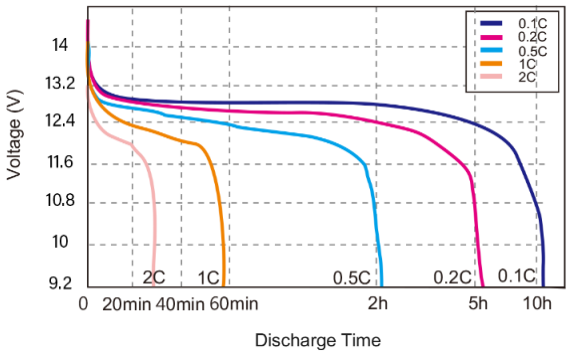




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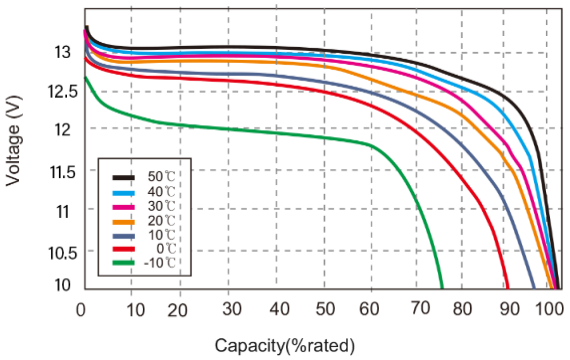
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



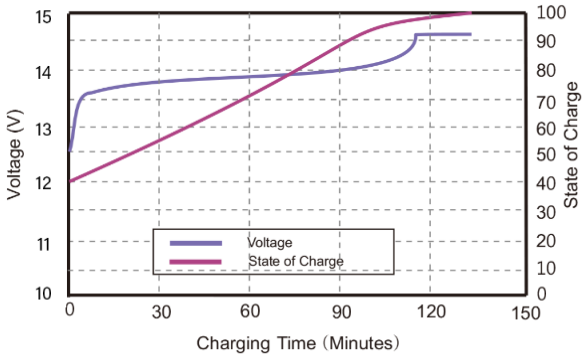
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



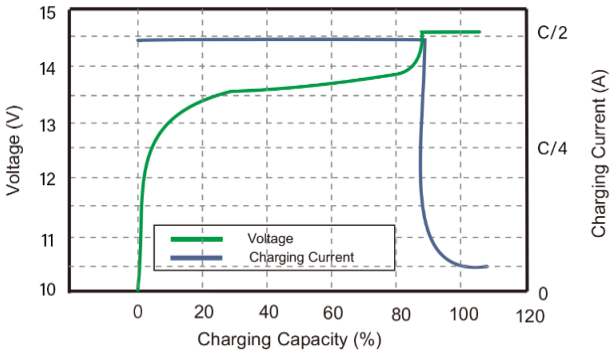
State of Charge Curve

State of Charge Curve @0.5C 25℃



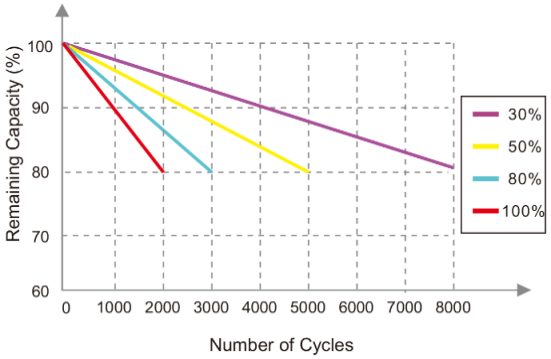
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

