Technical Data Sheet

12 V 38 Ah LiFePO4 Lithium Battery



Reference | B12038L

Technical Specifications

Product Reference: B12038L
Technology: Lithium Iron Phosphate
Nominal Voltage: 12.8 V
Minimum Capacity: 38 Ah
Energy: 486 Wh
Charging Voltage: 14.6 V
Standard Charge Current: 15 A
Fast Charge Current: 30 A
Continuous Discharge Current: 30 A
Pulse Discharge Current: 45 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 (55 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

M6 screw terminals

Weight: 4.2 kg
Dimensions: 174 (L) x 173 (W) x 113 (H) mm

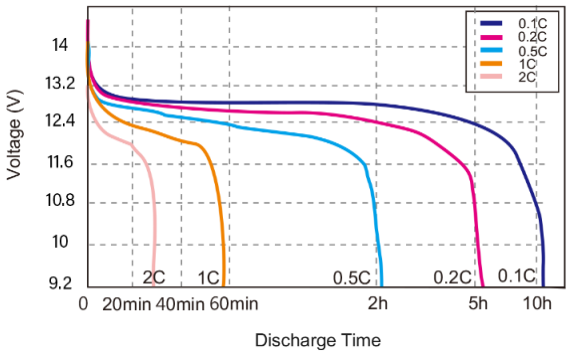
IP51 (protection against vertically
falling water droplets)

CE RoHS Compliant UN38.3 PASSED Transport Safety Certified

Technical Data Sheet

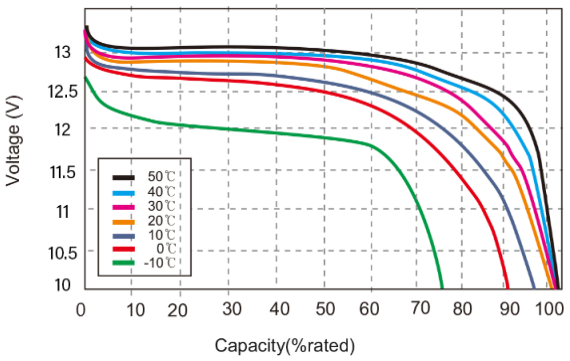
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



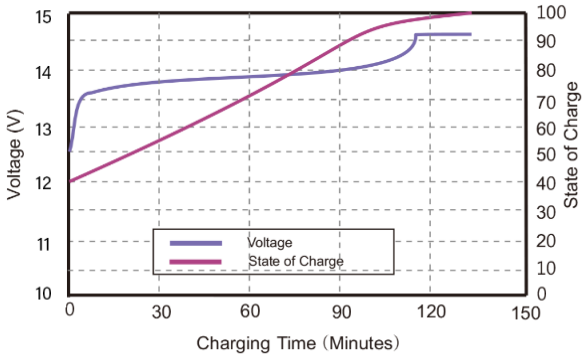
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



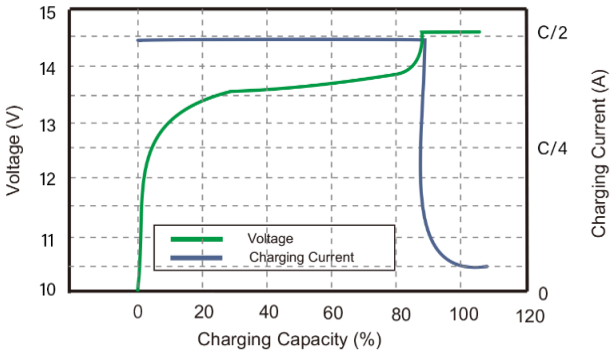
State of Charge Curve

State of Charge Curve @0.5C 25℃



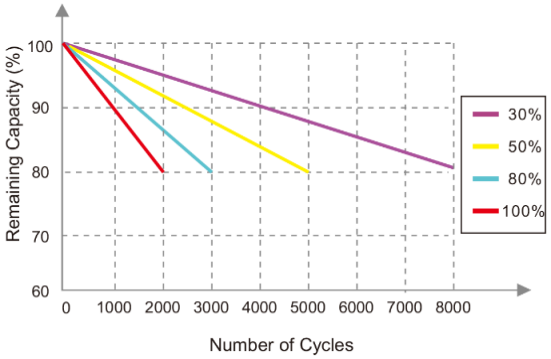
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

