Technical Data Sheet

12 V 30 Ah LiFePO4 Lithium Battery



Reference | B12030L

Technical Specifications

Product Reference : B12030L
Technology : Lithium Iron Phosphate
Nominal Voltage : 12.8 V
Minimum Capacity : 30 Ah
Energy : 389 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 (< 8 V)
- High-temperature protection (> 65°C)
- Battery cut-off for protection; automatic reconnection
- Cell balancing

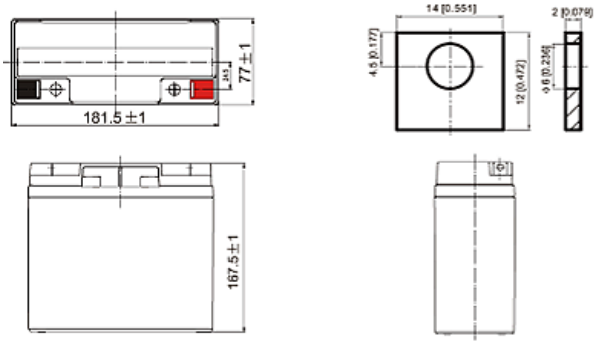
Connection

M5 screw terminals

Weight : 3.6 kg
Dimensions :182 (L) x 77 (W) x 169 (H) mm

IP51 (protection against vertically falling water drops)

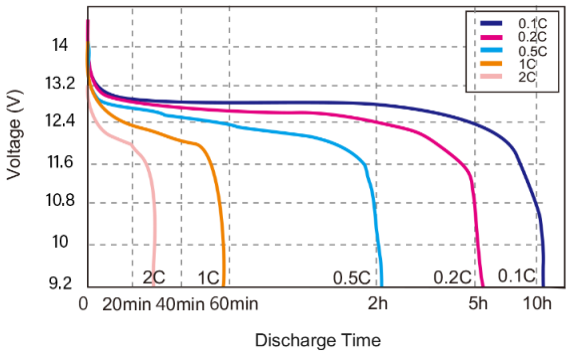
CE RoHS Compliant UN38.3 PASSED Transport Safety Certified



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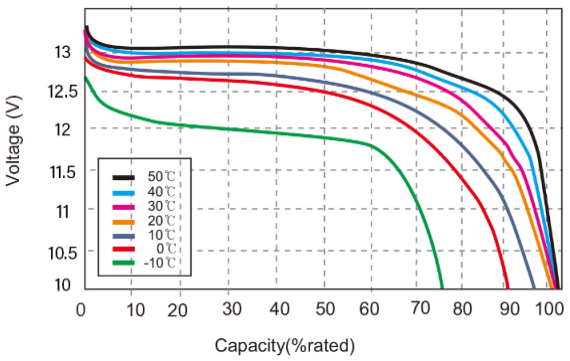
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



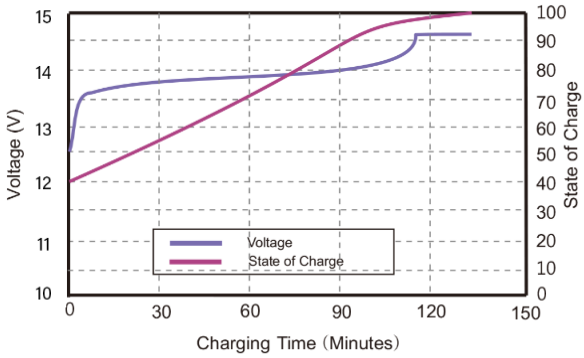
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



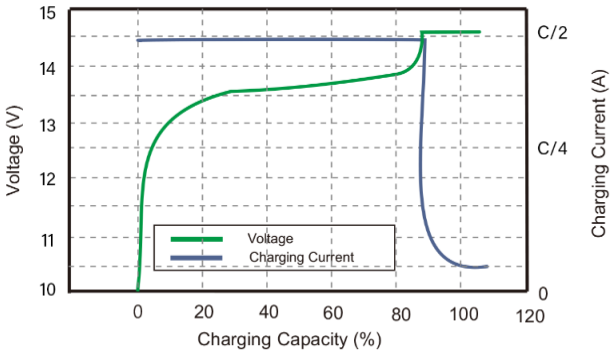
State of Charge Curve

State of Charge Curve @0.5C 25℃



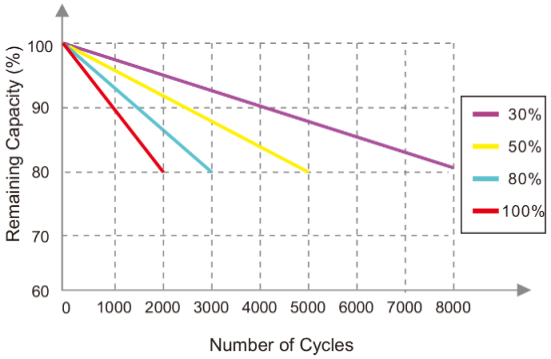
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

