Technical Data Sheet

48 V 30 Ah LiFePO4 Lithium Battery



Reference | B48030L

Technical Specifications

Product reference: B48030L
Technology: Lithium Iron Phosphate
Nominal voltage: 51.2 V
Minimum capacity: 30.4 Ah
Energy: 1556 Wh
Charging voltage: 57.6 V
Standard charging current: 15 A
Fast charging current: 30 A
Continuous discharge current: 40 A
Pulse discharge current: 80 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: 80 A ± 10 A
· Deep-discharge protection below 18 V
· Overtemperature protection above 65°C
· Battery disconnect with automatic reconnection
· Cell balancing

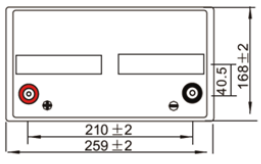
Connection

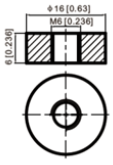
M6 screw terminals

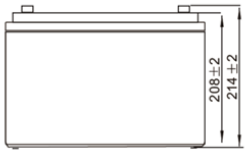
Weight: 13.5 kg

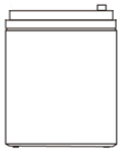
Dimensions: 259 × 168 × 214 mm

IP51 (protection against vertically falling water drops)





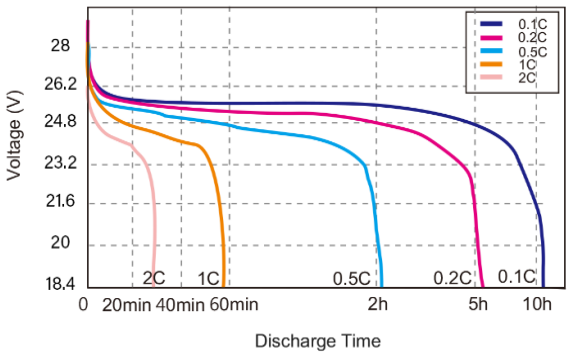




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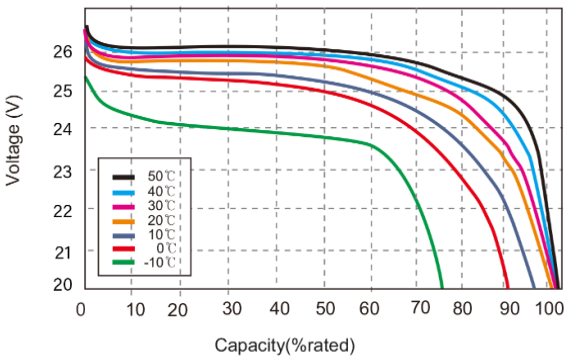
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



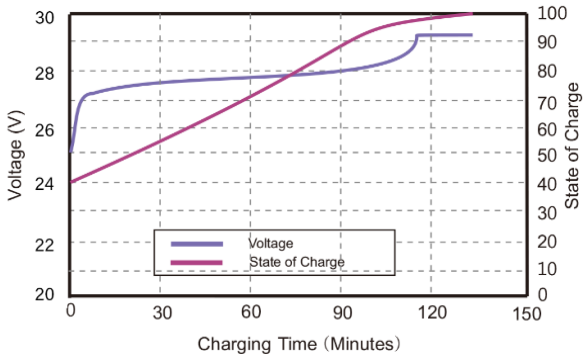
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



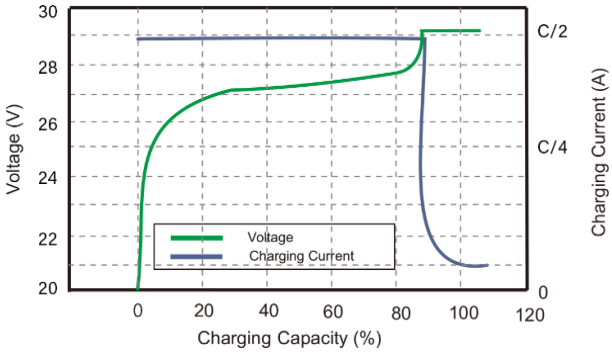
State of Charge Curve

State of Charge Curve @0.5C 25℃



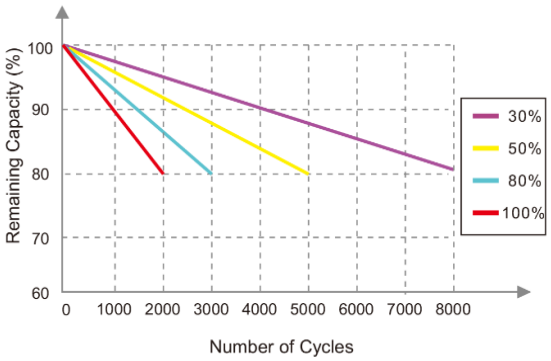
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

