Technical Data Sheet

24 V 18 Ah LiFePO4 Lithium Battery



Reference | B24018L

Technical Specifications

Product reference: B24018L
Chemistry: Lithium Iron Phosphate
Nominal voltage: 25.6 V
Minimum capacity: 18 Ah
Energy: 460 Wh
Charging voltage: 29.2 V
Standard charge current: 8 A
Fast charge current: 15 A
Continuous discharge current: 30 A
Pulse discharge current: 40 A (1 min)
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: 80 A ± 10 A
✓ Deep-discharge protection: voltage < 18 V
✓ Overtemperature protection: > 65°C
✓ Protection disconnects the battery; reconnection is automatic
✓ Cell balancing

Connection

M8 screw terminals

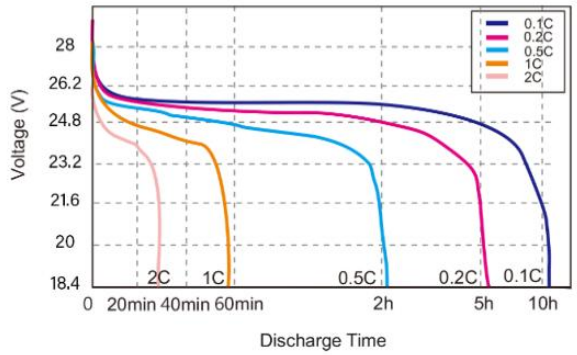
Weight: 4.3 kg
Dimensions: 175 (L) × 173 (W) × 113 (H) mm

IP51: protection against vertically falling water drops

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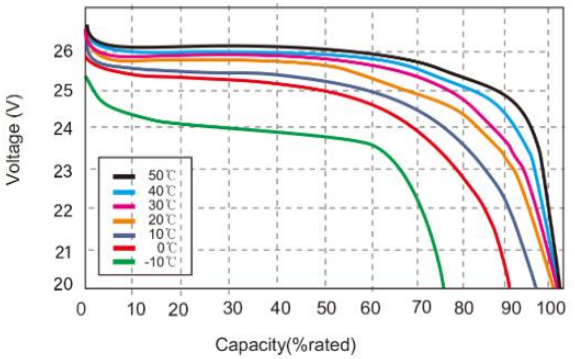
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



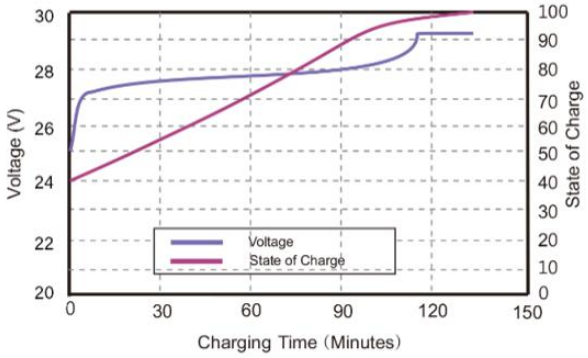
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



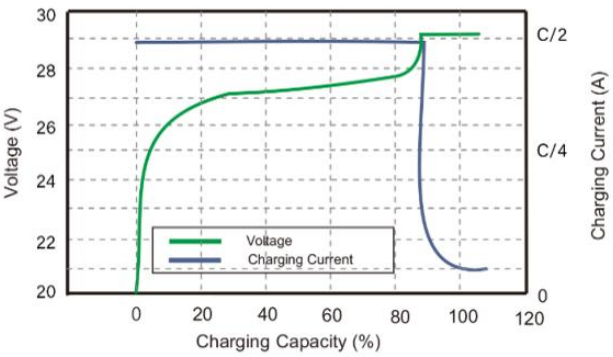
State of Charge Curve

State of Charge Curve @0.5C 25℃



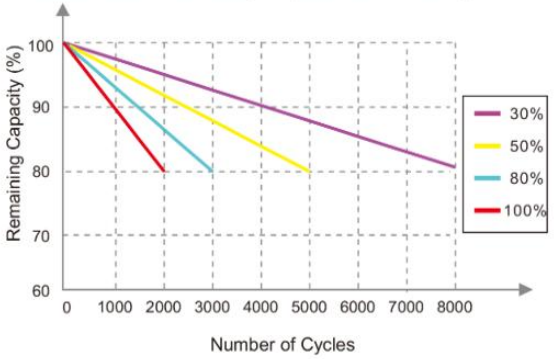
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

