Technical Data Sheet

12 V 14 Ah LiFePO4 Lithium Battery



Reference | B12014L

Technical Specifications

Product reference : B12014L
Technology : Lithium Iron Phosphate
Nominal voltage : 12.8 V
Minimum capacity : 14 Ah
Energy : 184 Wh
Charging voltage : 14.6 V
Standard charge current : 7 A
Fast charge current : 14 A
Continuous discharge current : 20 A
Pulse discharge current : 30 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)

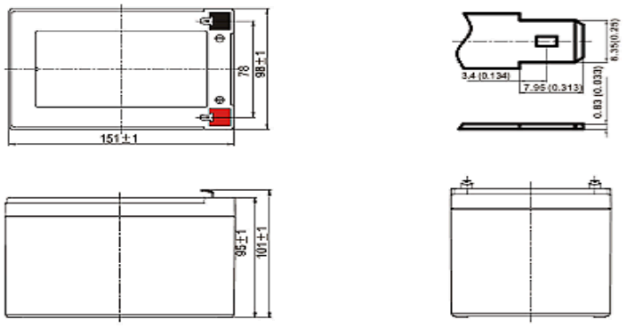
- ✓ Short-circuit protection
- ✓ Overcharge protection: 30 A ± 10 A
- ✓ Deep-discharge protection
  Voltage < 8 V
- ✓ Overtemperature protection
  Above 65°C
- ✓ Battery disconnects for protection;
  automatic reconnection
- ✓ Cell balancing

Connexion
Connection

6.35 mm Faston terminals

Weight : 1.9 kg
Dimensions : 150(L) × 95(W) × 98(H) mm

IP51 (protection against vertically
falling water drops)

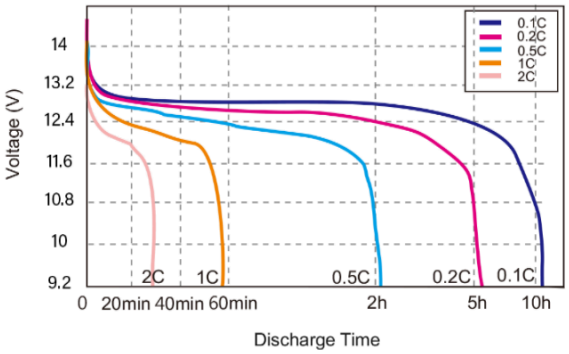


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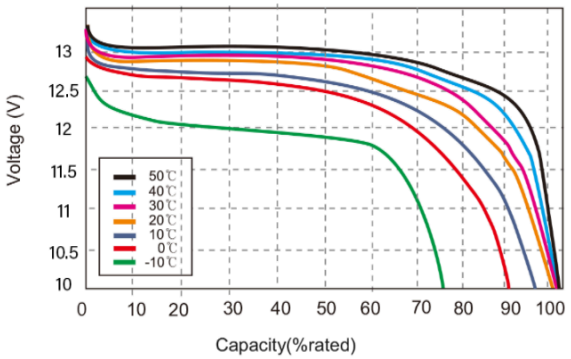
Different Rate Discharge Curve

Different Rate Discharge Curve @25℃



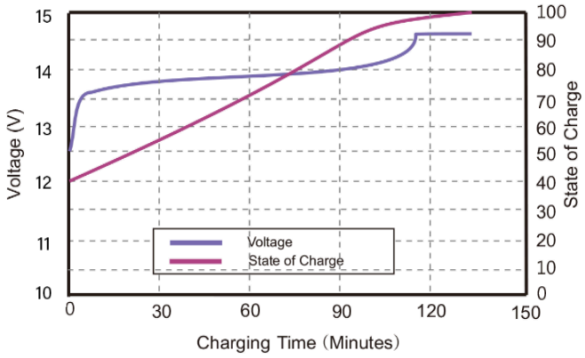
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



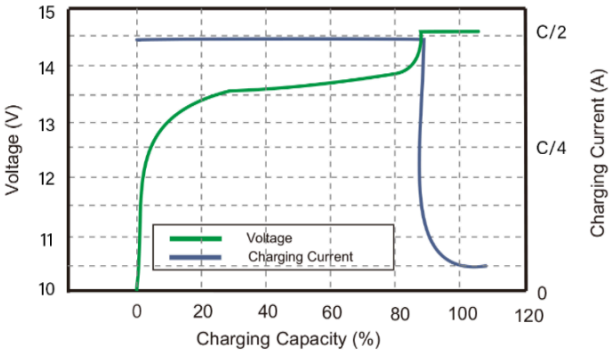
State of Charge Curve

State of Charge Curve @0.5C 25℃



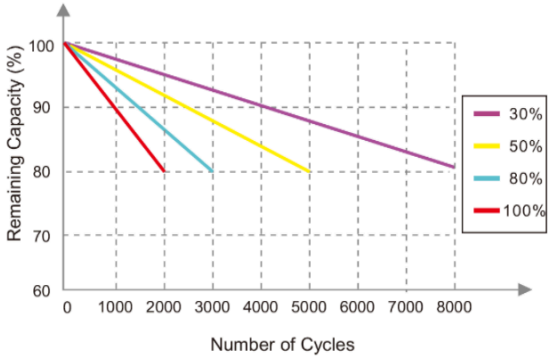
Charging Characteristics

Charging Characteristics @0.5C 25℃



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

