

POWER LITHIUM BATTERIES

Lithium Iron Phosphate (LiFePO4) Battery

LFP38.4V110AH-BT

38.4V110AH 4224Wh

Features of LiFePO4 Battery

Longer Cycle Life

LiFePO4 batteries would be is five times than SLA batteries on cycle life

High Power & Light weight

LiFePO4 batteries performance twice power of SLA batteries, while half weight helpful for transport and installation

Intelligent management control

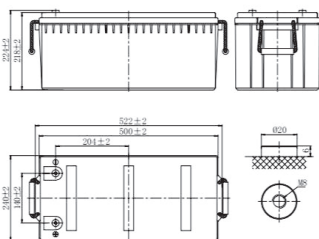
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

Lower Self-discharge rate

Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



Physical Dimension



Applications

- Caravan, RV, camping
- UPS (replacement of SLA batteries)
- Marine, golf cart
- Solar, wind system
- PV, solar light

Electrical Characteristics

Chemistry	LiFePO4
Nominal Voltage	38.4V
Nominal Capacity	110Ah (C5,25°C)
Energy	4224Wh
Internal Resistance	≤20 mΩ
Cycle Life	>2000 cycles @1C 100%DOD
Months Self Discharge	<3%
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96-99% @1C

Standard Charge

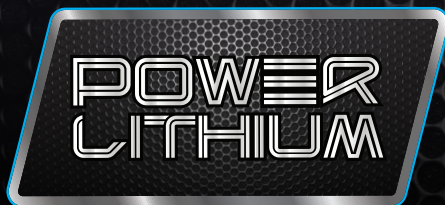
Charge Voltage	43.8±0.2V
Charge Mode	0.2C to 43.8V, then 43.8V, charge current to 0.02C (CC/CV)
Charger Current	55A
Max. Charge Current	110A
Charge Cut-off Voltage	46.8V±0.2V

Standard Discharge

Rated Discharge Current	55A
Max Discharge Current	110A
Max. Pulse Current	330A(<3s)
Discharge Cut-off Voltage	30V
Charge Temperature	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity
Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity
Water Dust Resistance	IP65

Mechanical

BMS	4S/4P - Power Lithium Bluetooth
Plastic Case	ABS
Dimensions (in./mm.)	522 x 240 x 226 mm
Weight (lbs./kg.)	40.0kg(88.0lbs)
Terminal	M8



LifePO4 LITHIUM ION

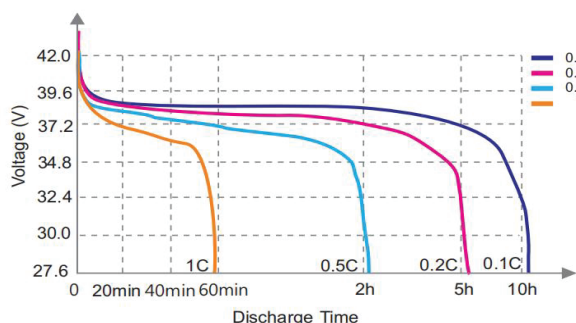
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Lithium Iron Phosphate (LiFePO₄) Battery

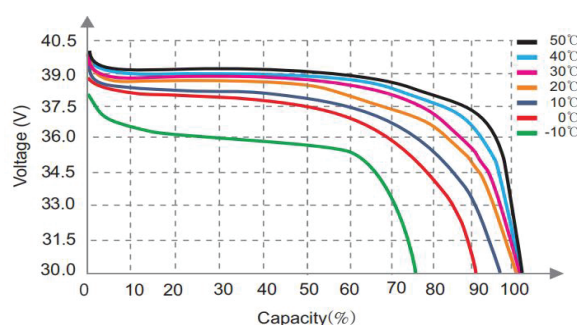
LFP38.4V110AH-BT

38.4V110AH 4224Wh

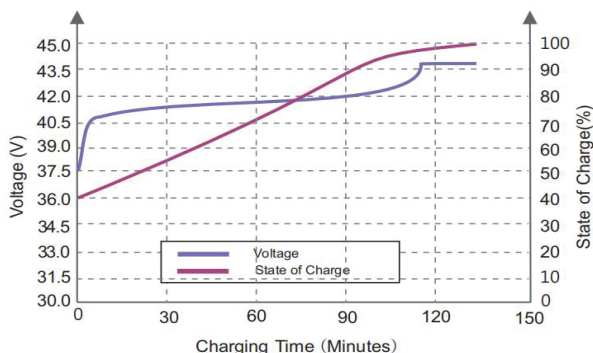
Different Rate Discharge Curve(25°C)



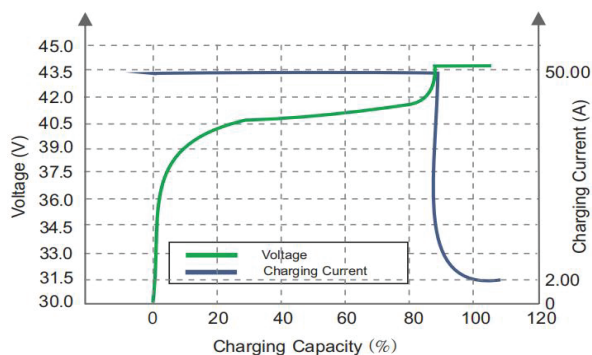
Different Temperature Discharge Curve(0.5C)



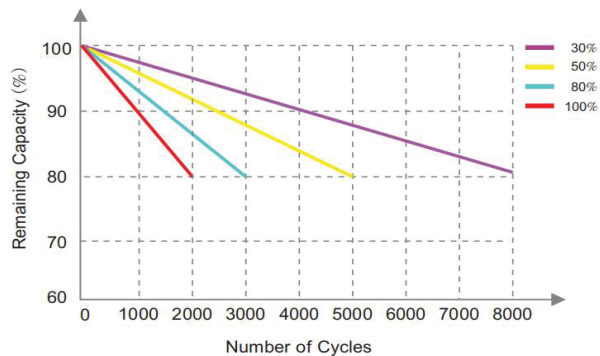
State of Charge Curve(0.5C, 25°C)



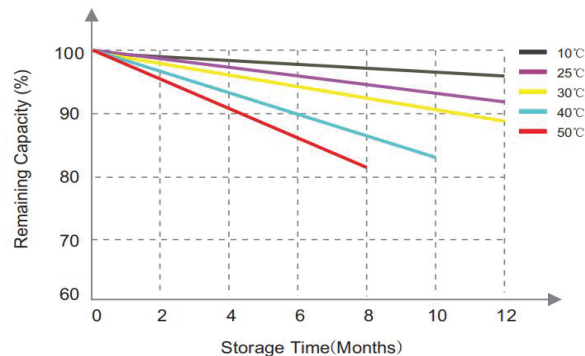
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



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