

Wall Mounted LiFePO₄ Battery

LFP-W51.2-100 Lithium Battery



High Cycle Life

6000 cycles @80%DOD, 25°C for effectively lower cost total of ownership.



Longer Service Life

Low maintenance batteries with stable chemistry.



Built In Circuit Protection

Battery Management System (BMS) is incorporated against abuse.



Better Storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



Quickly Recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.

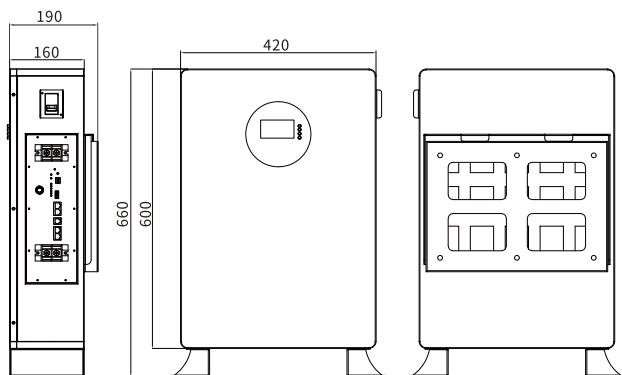


Extreme Heat Tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C



Product Dimension Diagram



Unit: mm

Application

- Electric vehicles.
- Solar/wind energy storage system.
- UPS, backup power.
- Telecommunication
- Medical equipment
- Lighting

FC IEC CE UN38.3 MSDS

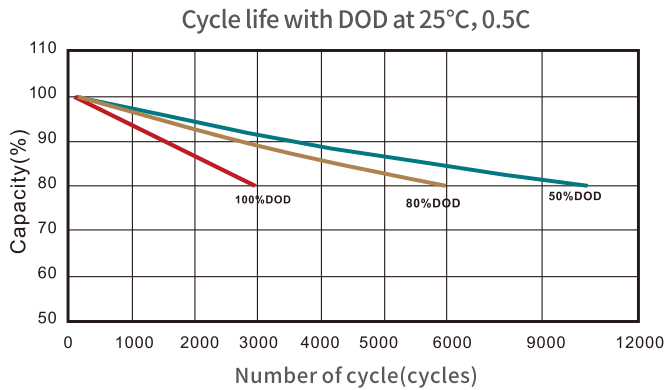
Electrical Characteristics		
Nominal Voltage		51.2V
Nominal Capacity		100Ah (C ₅ , 25°C)
Energy		5120Wh
Internal Resistance		≤10mΩ@50%SOC
Cycle Life		>6000 cycles
Months Self Discharge		<3%
Efficiency of Charge		100%@0.5C
Efficiency of Discharge		96-99%@0.5C
Standard Charge		
Charge Mode		0.2C to 58.4V, then 58.4V, charge to current till 0.02C(CC/CV)
Continuous Current		50A
Recom. Charge Current		20A
Max. Charge Current		100A
Charge Cut-off Voltage		58.4V±0.2V
Standard Discharge		
Continuous Current		50A
Recom. Discharge Current		20A
Max. Discharge Current		100A
Discharge Cut-off Voltage		43.2V
Environmental		
Charge Temperature		0 °C to 45 °C (32°F to 113°F) @60±25% Relative Humidity
Discharge Temperature		-20 °C to 60 °C (-4°F to 140°F) @60±25% Relative Humidity
Storage Temperature		0 °C to 40 °C (32°F to 104°F) @60±25% Relative Humidity
IP Grade		IP54
Mechanical		
Cell & Method		3.2V100AH-16S1P
Metal Case		Metal
Dimensions (mm.)		600x420x160(Package:710x495x341)
Weight (kg.)		N.W.:47Kg/G.W.: 59Kg
Terminal		100A Connector
Communication		RS485/RS232/CAN
BMS		16S100A
Parallel		Up to 16 units

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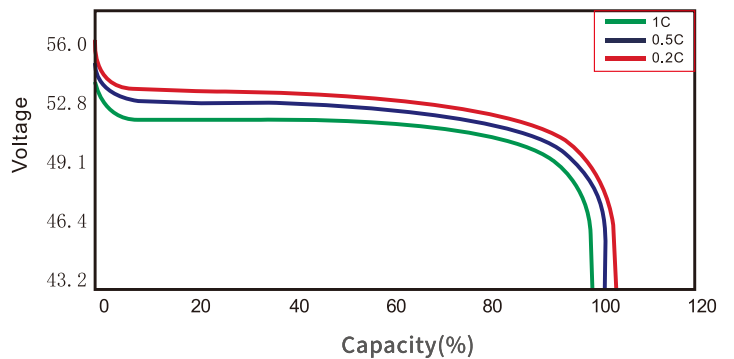
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» Model Performance Diagrams

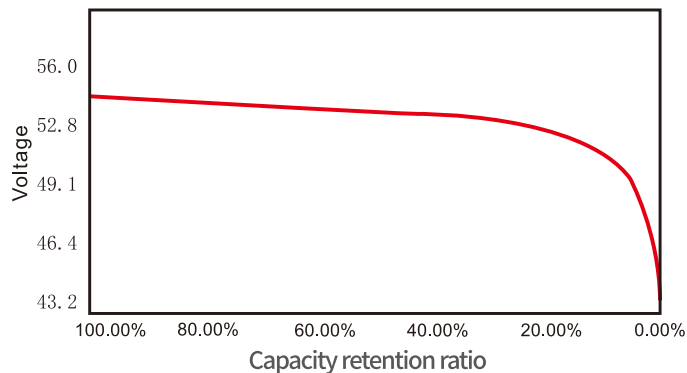
Number of Cycles Vs. DOD



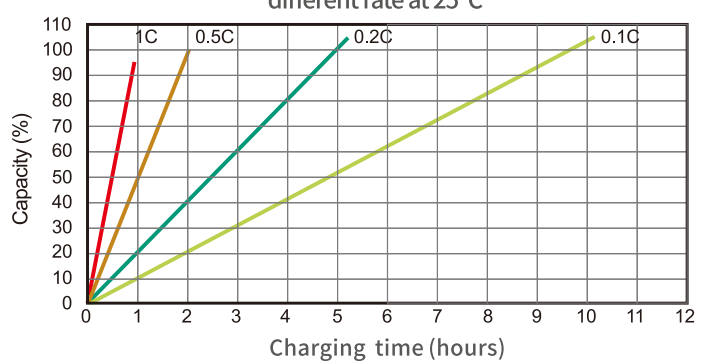
Discharge Performance at R.T.



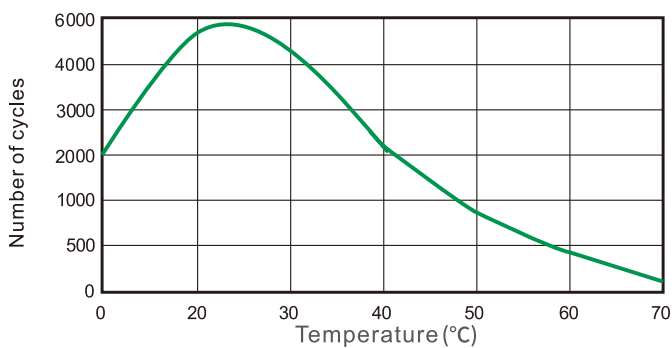
Battery Capacity (C) VS. Open Circuit Voltage (OCV)



Battery Capacity Vs. Charging Time



Cycle Life in Relation to Temperature



Temperature Effects on Capacity

