

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.



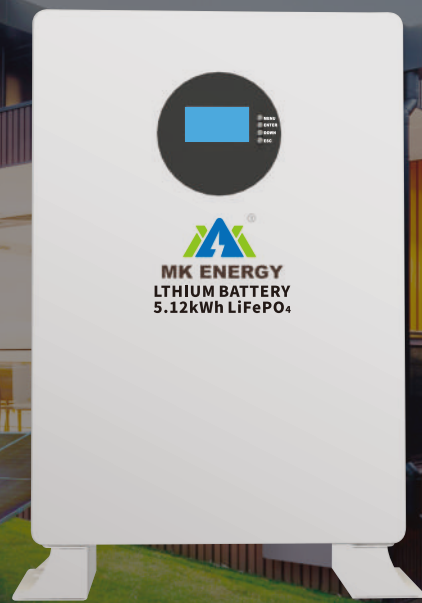
Quickly Recharge

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

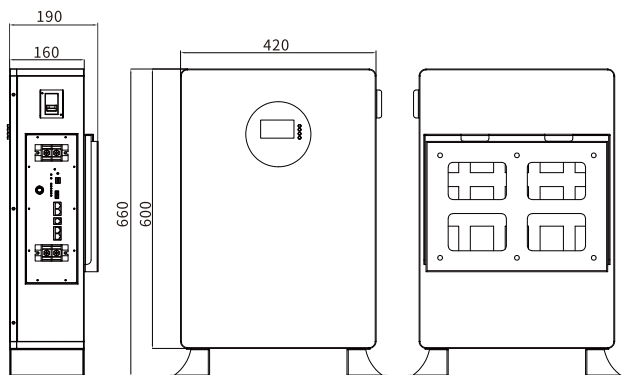


Extreme Heat Tolerance

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

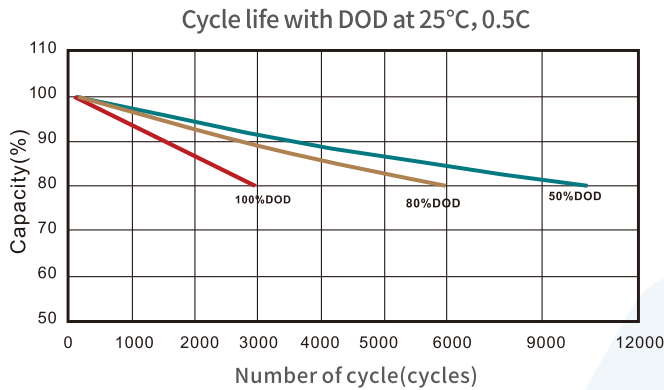
Electrical Characteristics	
Nominal Voltage	51.2V
Nominal Capacity	100Ah (C ₅ ,25°C)
Energy	5120Wh
Internal Resistance	≤10mΩ@50%SOC
Cycle Life	>6000 cycles
Months Self Discharge	<3%
Efficiency of Charge	100%@0.5C
Efficiency of Discharge	96-99%@0.5C
Standard Charge	
Charge Mode	0.2C to 58.4V, then 58.4V, 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	IP20
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

Wall Mounted LiFePO₄ Battery

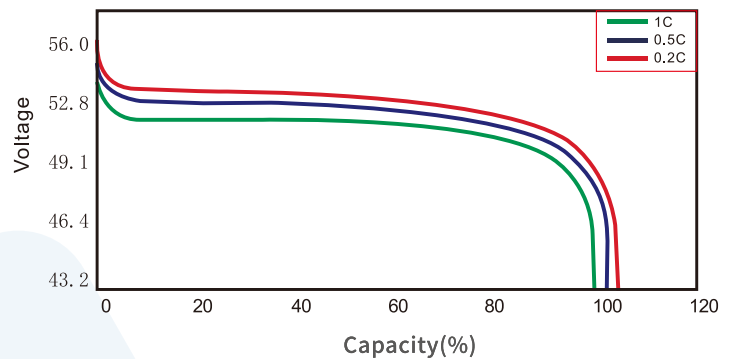
LFP-W51.2-100 Lithium Battery

» Model Performance Diagrams

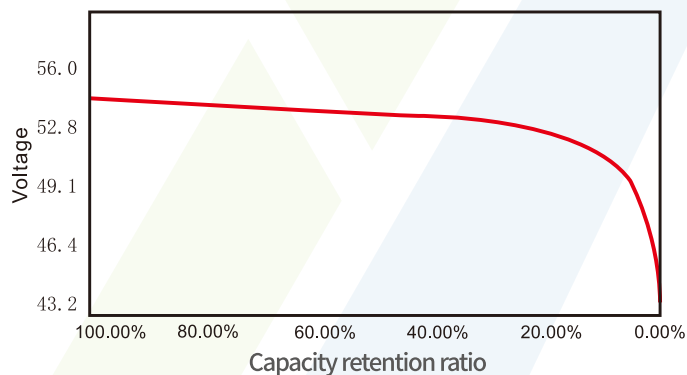
Number of Cycles Vs. DOD



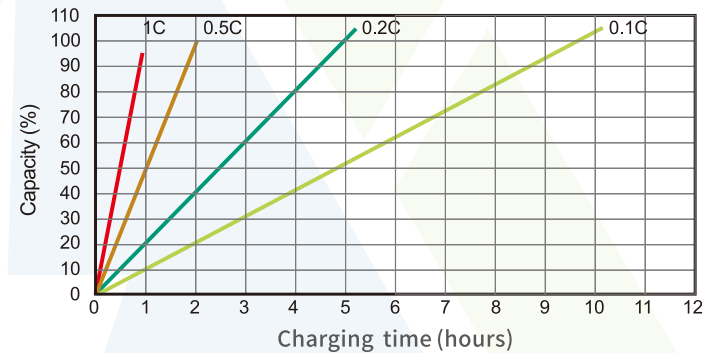
Discharge Performance at R.T.



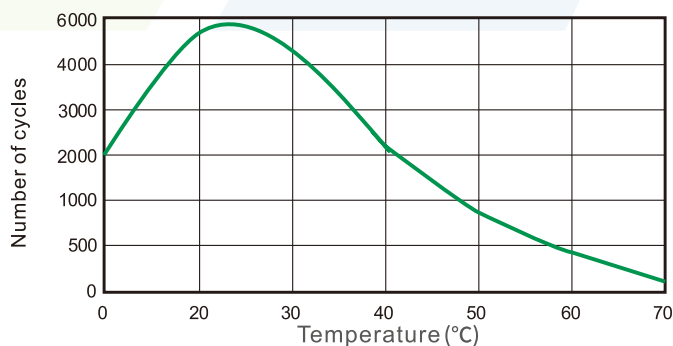
Battery Capacity (C) VS. Open Circuit Voltage (OCV)



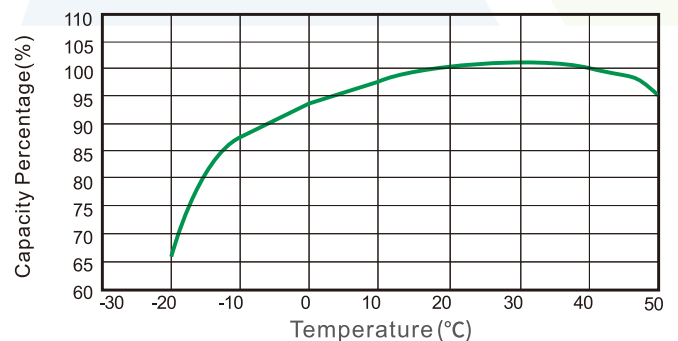
Battery Capacity Vs. Charging Time



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



WWW.MKENERGYCN.COM sales@mkenerycn.com

SALES OFFICE: MK ENERGY(SHENZHEN) CO.,LTD.
 Sales Center:
 1806,Building F, Nanshan Wisdom Valley Industrial Park,
 Shahe West Road,Nanshan District, Shenzhen, China.

Huizhou Base:
 9F, Bldg 3, Runhao Park, Sihuan South Road, Zhongkai High-tech Zone, Huizhou, China.