

LiFePO₄ RV&Marine Battery

LFP-12.8-100 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.

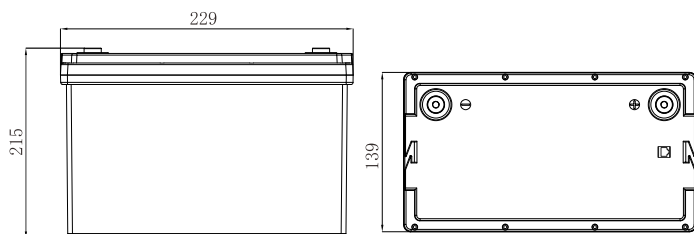


Extreme Heat Tolerance

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

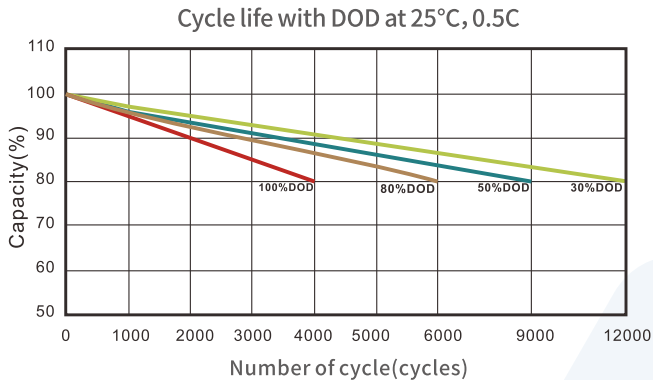
Electrical Characteristics	
Nominal Voltage	12.8V
Nominal Capacity	100Ah (C ₂₀ , 25°C)
Energy	1280Wh
Internal Resistance	≤10mΩ@50%SOC
Cycle Life	>6000 cycles@0.5C&80%DOD
Months Self Discharge	<3%
Efficiency of Charge	100%@1C
Efficiency of Discharge	96-99%@1C
Standard Charge	
Charge Mode	0.5C to 14.6V, then 14.6V, charge to current till 0.02C(CC/CV)
Continuous Current	100A
Recom. Charge Current	50A
Max. Pulse Charge Current	200A<2S
Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	
Continuous Current	100A
Recom. Discharge Current	50A
Max. Pulse Discharge Current	200A<2S
Discharge Cut-off Voltage	10.8V
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
Water Dust Resistance	IP65
Mechanical	
Cell & Method	3.2V100Ah-4S1P(UL9540/UL1973)
Case	ABS
Dimensions (in./mm.)	229x139x215mm / Package:289x199x243mm
Weight (lbs./kg.)	N.W.:9.5Kg/G.W.: 11Kg
Terminal	M8
Communication	CAN / bluetooth (optional)
BMS	4S100A
Parallel	Up to 4 units

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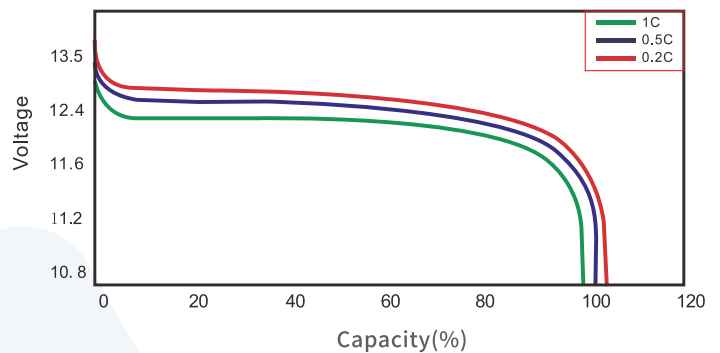
LFP-12.8-100 Lithium Battery

» Model Performance Diagrams

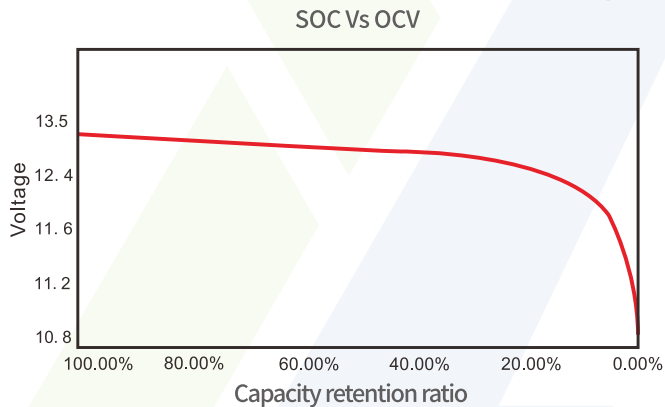
Number of Cycles Vs. DOD



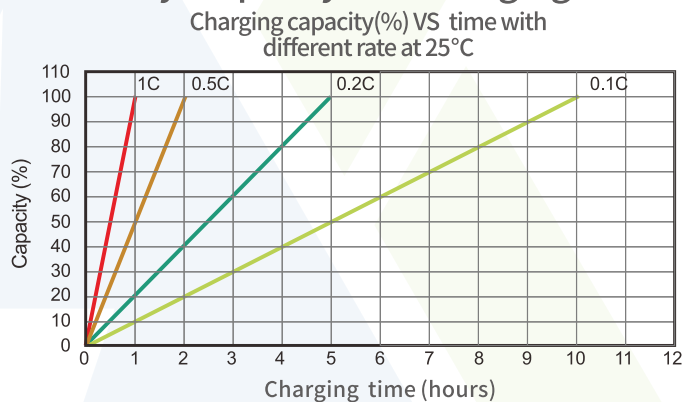
Discharge Performance at R.T.



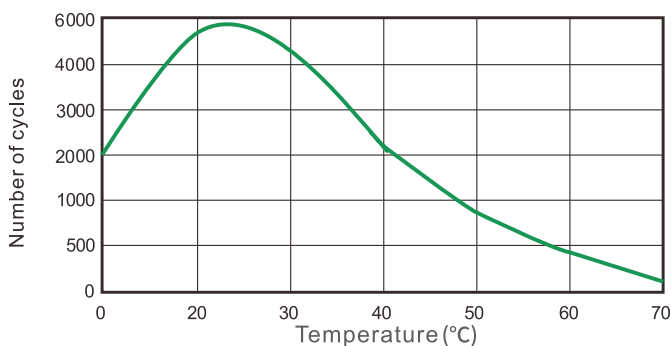
Battery Capacity (C) VS. Open Circuit Voltage (OCV)



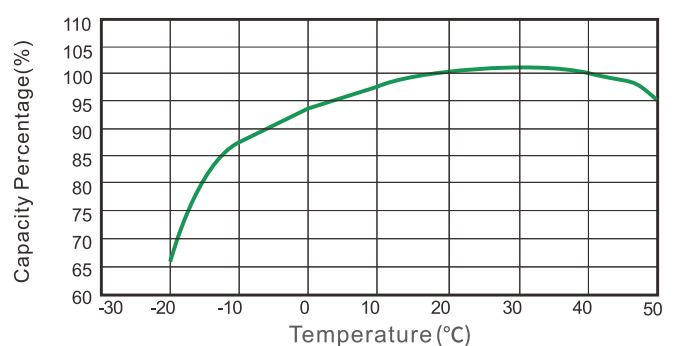
Battery Capacity Vs. Charging Time



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



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