

# LiFePO<sub>4</sub> 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.



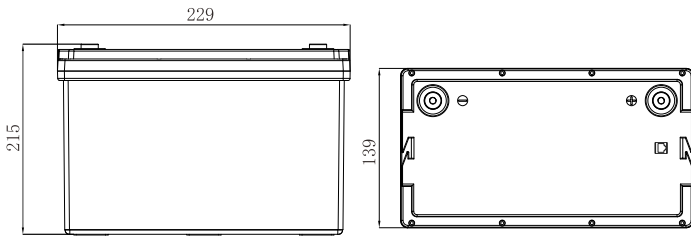
**Quickly Recharge**  
Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



**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

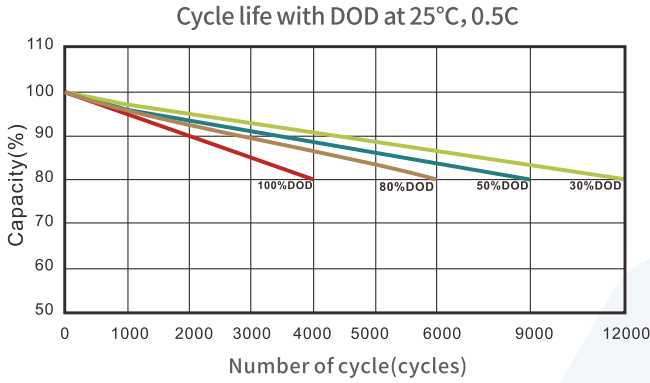
Electrical Characteristics	
Nominal Voltage	12.8V
Nominal Capacity	100Ah (C <sub>5</sub> ,25°C)
Energy	1280Wh
Internal Resistance	≤10mΩ@50%SOC
Cycle Life	>6000 cycles@0.5C&80%DOD
Months Self Discharge	<3%
Efficiency of Charge	100%@1C
Efficiency of Discharge	96-99%@1C
Standard Charge	
Charge Mode	0.5C 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

# LiFePO<sub>4</sub> RV&Marine Battery

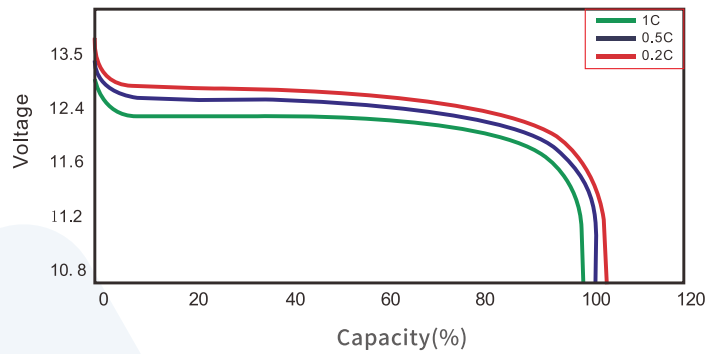
## LFP-12.8-100 Lithium Battery

### » Model Performance Diagrams

#### Number of Cycles Vs. DOD

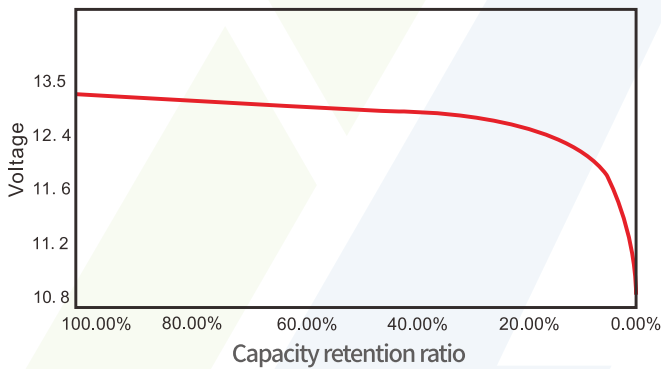


#### Discharge Performance at R.T.



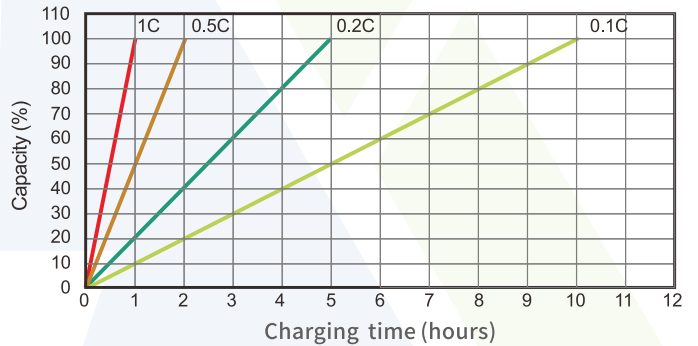
#### Battery Capacity (C) VS. Open Circuit Voltage (OCV)

SOC Vs OCV

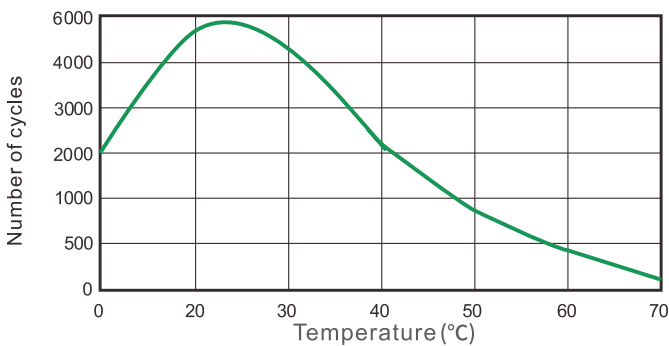


#### Battery Capacity Vs. Charging Time

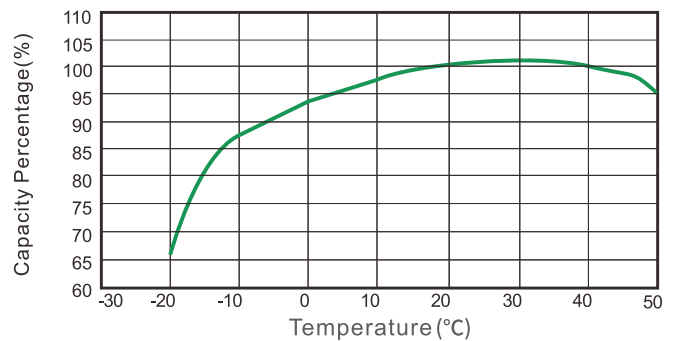
Charging capacity(%) VS time with different rate at 25°C



#### Cycle Life in Relation to Temperature



#### Temperature Effects on Capacity



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