Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8V-200Ah 2560Wh

pilot®

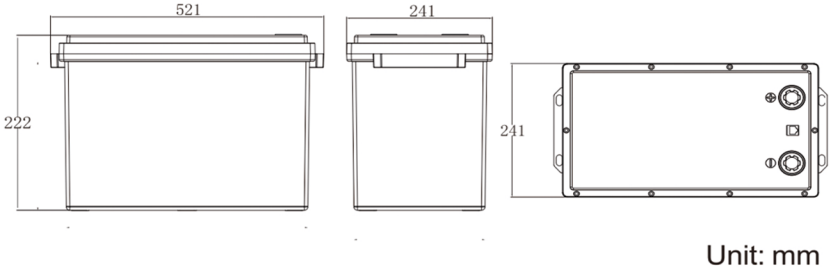
Features of LiFePO4 Battery

- **High Cycle Life**
  4000 cycles @80% DOD, 25°C for effectively lower total of ownership cost.
- **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

Application

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

Product Dimension Diagram



Unit: mm

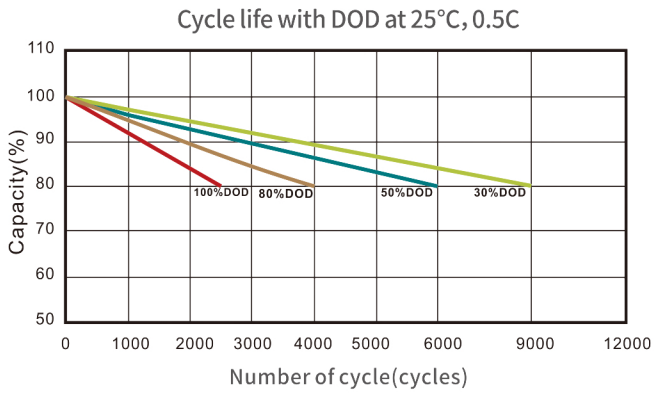
FC IEC CE UN38.3 MSDS

Electrical Characteristics	
Nominal Voltage	12.8V
Nominal Capacity	200Ah(Cs,25°C)
Energy	2560Wh
Internal Resistance	≤10mΩ@50%SOC
Cycle Life	>4000 cycles@0.5C&80%DOD
Months Self Discharge	<3%
Efficiency of Charge	100%@1C
Efficiency of Discharge	96~99%@1C
Standard Charge	
Charge Mode	0.2C to 14.6V, then 14.6V, charge to currenttill 0.02C(CC/CV)
Continuous Current	200A
Recom. Charge Current	100A
Max. Pulse Charge Current	400A<2S
Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	
Continuous Current	200A
Recom. Discharge Current	100A
Max. Pulse Discharge Current	400A<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-4S2P
Case	ABS
Dimensions (in /mm)	521* 241* 222 mm
Weight (lbs./kg.)	N.W.: 1 & 5Kg/G.W.: 19. 5Kg
Terminal	M8
Communicition	CAN / bluetooth (optional)
BMS	4S200A
Parallel	Up to 4 units

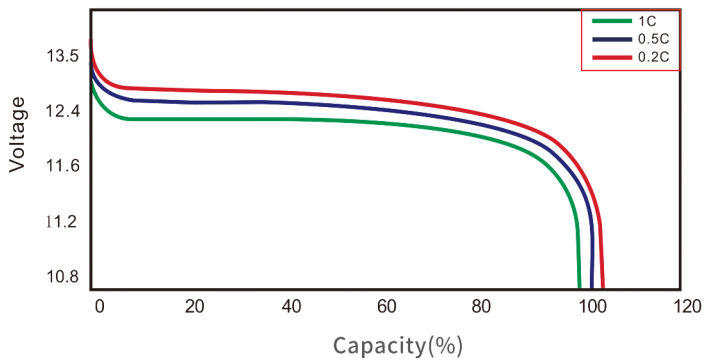
LFP-12.8-200 Lithium Battery

Model Performance Diagrams

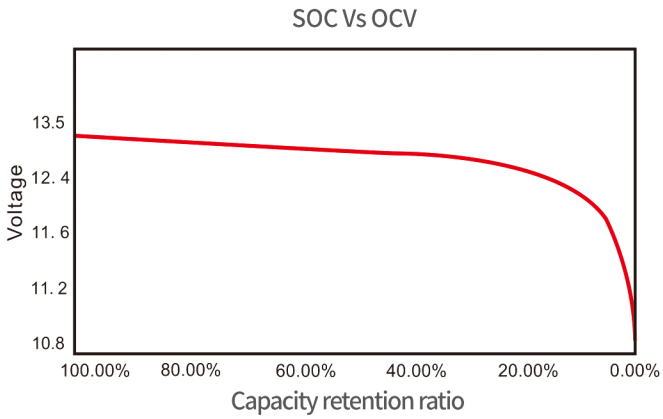
Number of Cycles Vs. DOD



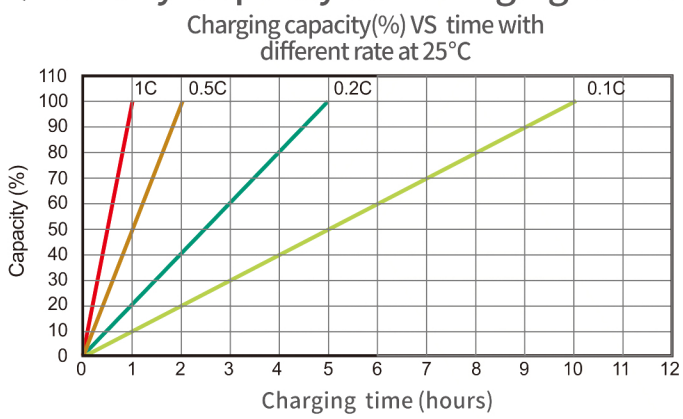
Discharge Performance at R.T.



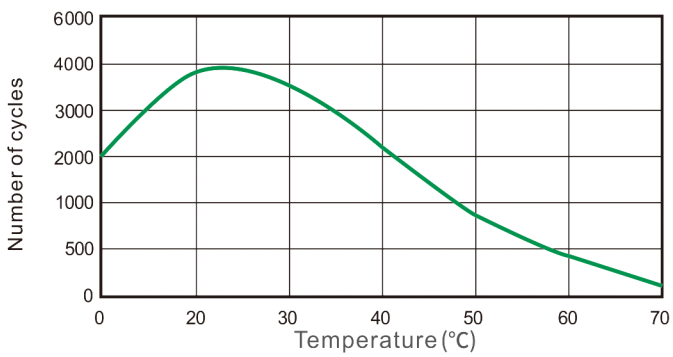
Battery Capacity (C) VS. Open Circuit Voltage (OCV)



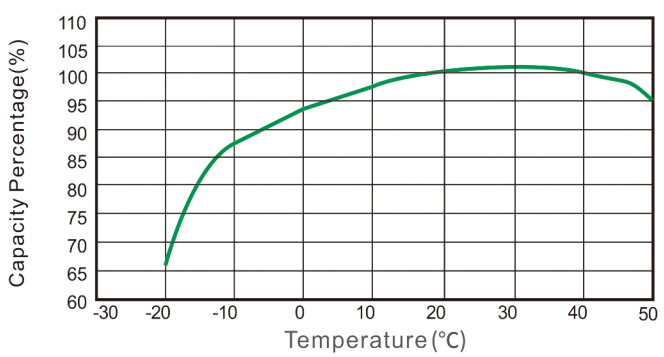
Battery Capacity Vs. Charging Time



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



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