

LITHIUM BATTERY SPECIFICATIONS

LIFEP04

Li
Lithium



Lithium-Iron Phosphate Battery (LiFePO4)

- Longer-life and inherently safe
- Lowest Risks of overheating dangers
- Commonly Used in renewable energy, power tools, medical equipment
- Heavier and Higher Cost, but More Life Cycles than Li(NiCoMn)O2
- Energy Density (95-140) Wh/kg

(source: <http://synergyfiles.com/2015/09/5-types-of-lithium-ion-batteries>)

Type	LiFePO4 Lithium-Iron Phosphate					
Model	12V50AH	12V100AH	12V200AH	12V300AH	12V400AH	24V100AH
Nominal capacity (Amp Hour)	50 Amp Hour	100 Amp Hour	200 Amp Hour	300 Amp Hour	400 Amp Hour	100 Amp Hour
Nominal Operating Voltage	12 Volts to 12.8 Volts					24 Volts
Cell Type	3.2V/50Ah	3.2V20Ah	3.2V20Ah	3.2V50Ah	3.2V200Ah	3.2v50Ah
Cell Configuration	4S1P	4S5P	4S10P	4S10P	4S2P	8S2P
Max. Charge Current	25A	40A	40A	50A	50A	40A
Max. Discharge Current	300 AMPS					
Minimum Life Cycles	>2500					
Dimensions	280 x 246 x 156 mm 11" x 9.7" x 6.1"	280 x 246 x 156 mm 11" x 9.7" x 6.1"	355 x 272 x 166 mm 14" x 10.7" x 6.5"	460 x 380 x 320 mm 18" x 15" x 12.5"	615 x 205 x 450 mm 24.2" x 8" x 17.7"	320 x 250 x 280 mm 12.5" x 9.8" x 11"
Weight	13KG / 28LBS	16KG / 35LBS	30KG / 66LBS	43KG / 94LBS	80KG / 177LBS	32KG / 71LBS
Case Material	ABS				Metal Case	ABS
Work Temp	-20~+60°C					
Humidity	45~85%RH					
BMS Protections	Float Charge Function, Over-Charge Protection, Max-Discharge 200A, Over-Discharge, Overload, Short-Circuit					

www.PacificSunSystems.com/Lithium
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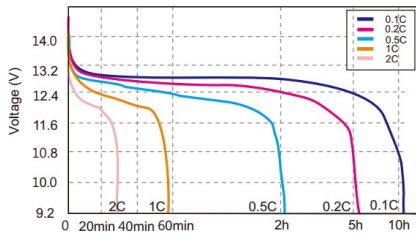
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*Lithium Batteries cannot be connected in a Series, but can be connected in Parallel. Specifications Are Subject To Change Without Notice, Please handle all batteries with Caution. For Terms and Conditions Visit www.pacmgmt.com

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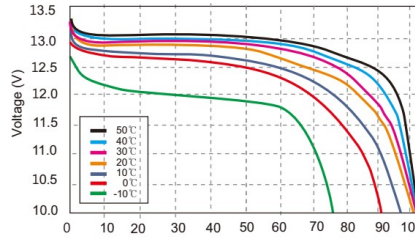
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



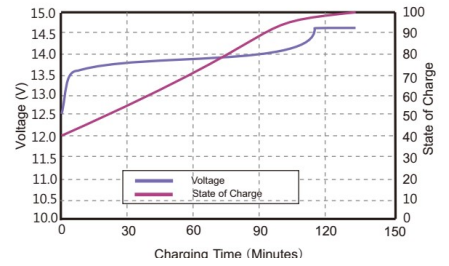
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



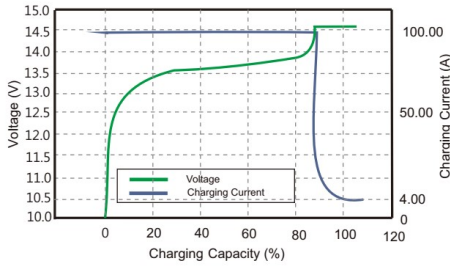
State of Charge Curve

State of Charge Curve @0.5C 25°C



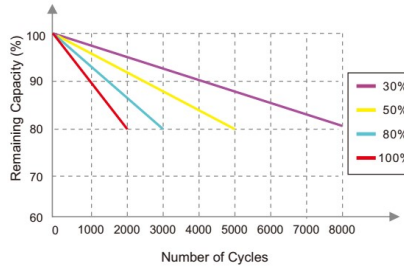
Charging Characteristics

Charging Characteristics @0.5C 25°C



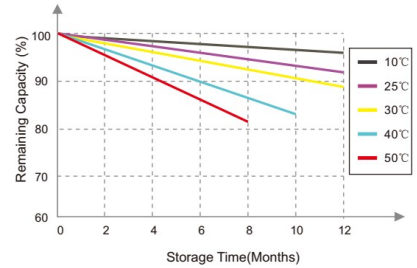
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



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