

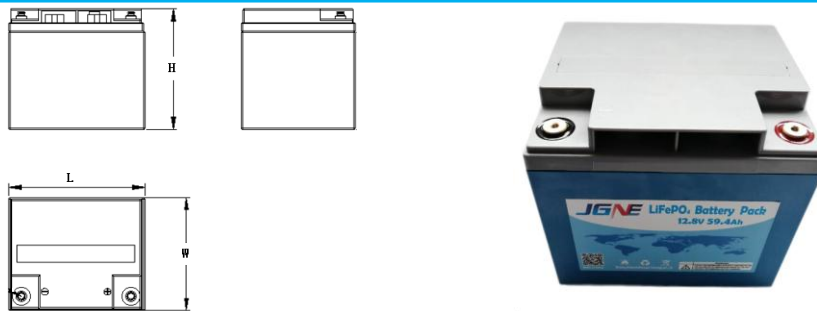
Lithium Iron Phosphate (LiFePO4) Battery

LiFePO4 Battery 12.8V59.4Ah SDJG-19TG010E

Features of LiFePO4 Battery

- ◆ **Reliable quality:** We focus on the various parts of production, from suppliers' selection to the production of phosphate material, lithium battery cell production and assembly of battery packs, to make sure the traceability of the products.
- ◆ **Long cycle time:** Provide 10 times longer cycle life than lead acid battery. Help to minimize replacement cost and reduce total cost of ownership.
- ◆ **Higher power:** Deliver twice power with higher discharge rate compared with lead acid battery. It also can sustain higher charge current and limit the charge time.
- ◆ **Lighter weight:** It's only 50% of the lead-acid battery weight. A drop in replacement for lead acid battery. Wider temperature range : -20°C-60°C.
- ◆ **Super safety:** Lithium Iron phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharged or short circuit situation.
- ◆ **Environment friendly:** Lithium battery materials do not have any poisonous and harmful substances whether in production or in use. Now it has been widely accepted by more and more countries.

Physical Dimension-mm



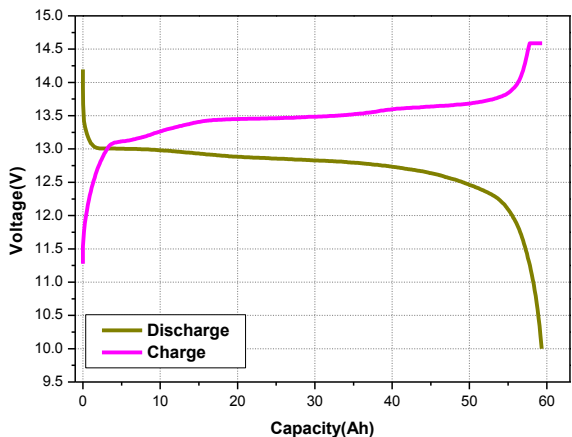
Specification

Product Model	JG-41FR12.8-59.4-Y (18650-3.2V-4S33P)	
Electrical Characteristics	Normal Voltage	12.8V
	Rated Capacity	59.4±2Ah(0.2C)
	Energy	About 760.32Wh
	Internal Resistance	≤40mΩ
	Cycle Life	≥1,600@0.2C (100%DOD)
		≥3,200@0.2C (80%DOD)
≥5,600@0.2C (50%DOD)		
Passive Protection Function	Over charge protection, Over discharge protection, Temperature protection, Balanced function	
Standard Charge	Charge Voltage	14.4±0.15V
	Charge Mode	0.2C to 14.4V, then 14.4V, charge current to 0.01C (CC/CV)
	Charge Current	12A
	Max. Charge Current	30A
Standard Discharge	Continuous Current	30A
	Max Continuous Current	≤60A
	Max. Pulse Current	60-180A(≤20ms)
	Discharge Cut-off Voltage	About 10.0V
Environmental	Charge Temperature	0°C to 45°C
	Discharge Temperature	-20°C to 60°C
	Storage Temperature	0°C to 40°C
Mechanical	Material System	LiFePO4
	Material of Case	Plastic
	L (mm) ×W (mm) × H (mm)	(195±2)×(165±2)×(175±2)
	Weight	6.4±0.5kg
	Terminal	M6

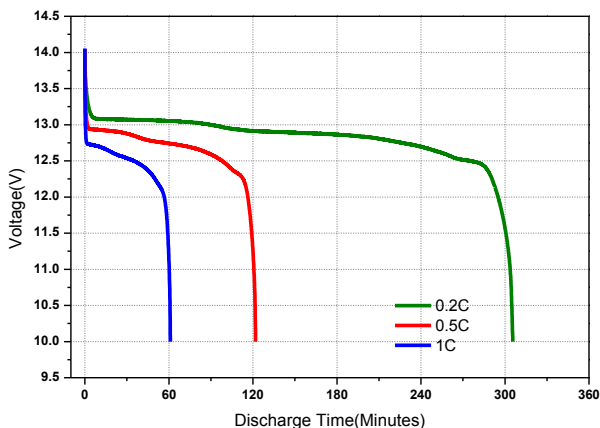
Please note that: the above are our regular parameters, which can be customized according to actual requirements. Please consult our technical engineers for details.

Please note that: in the following curves, if the testing current is bigger than this current, please remove the PCB and match suitable wires.

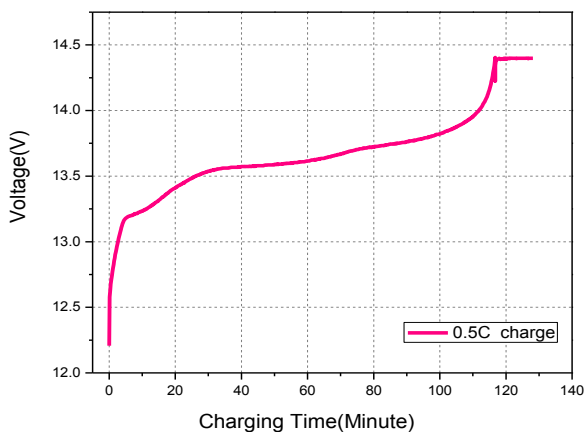
12.8V59.4Ah Charge-Discharge Curve 0.2C,25°C



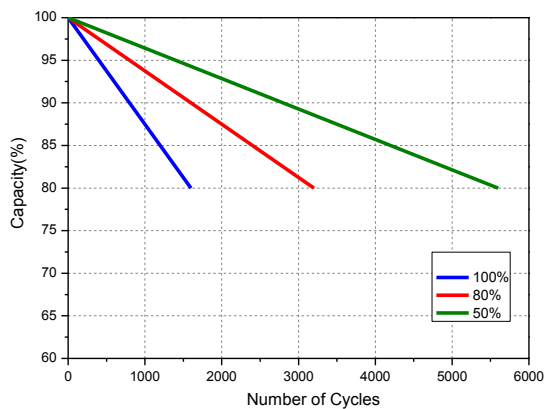
Different Rate Discharge Time & Voltage Curve, 25°C



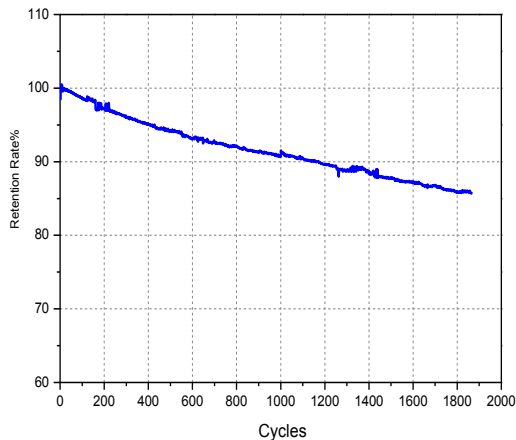
Voltage & Charging Time Curve, 0.5C, 25°C



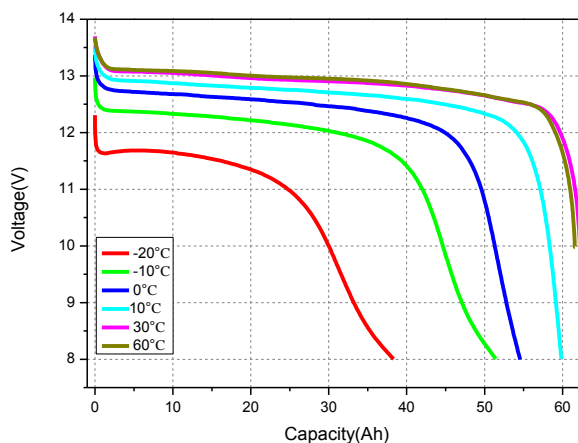
Different DOD Discharge Cycle Life Curve



Cycles & Capacity Retention Rate, 0.2C



Discharge Curves at Different Temperature



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