

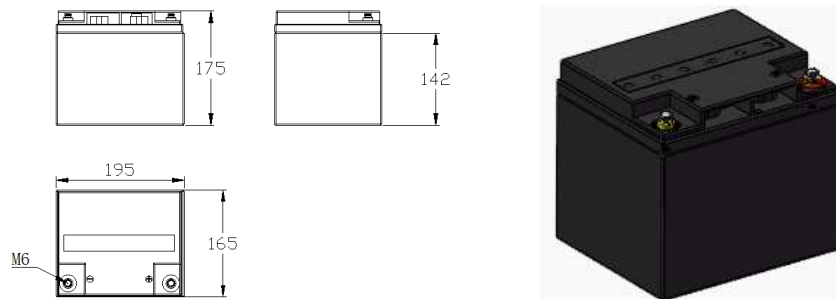
Lithium Iron Phosphate (LiFePO4) Battery

LiFeLi-1240MS (12.8V40Ah)

Features of LiFePO4 Battery

- **Reliable quality:** We focus on the various parts of production, from selection of supplier to the production of phosphate material to lithium battery cell production to assemble of battery pack, make sure the traceability of the products.
- **Long cycle time:** Offers up to 10 times longer cycle life than lead acid battery. Helping to minimize replacement cost and reduce total cost of ownership.
- **Higher power:** Delivers twice power of lead acid battery with higher discharge rate. Also can sustain higher charge current and limit the charge time.
- **Lighter weight:** About 50% of the weight of a comparable lead acid battery. 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 material do not have any poisonous and harmful substances both in production and use. Now it is widely accepted by more and more countries.

Physical Dimension-mm

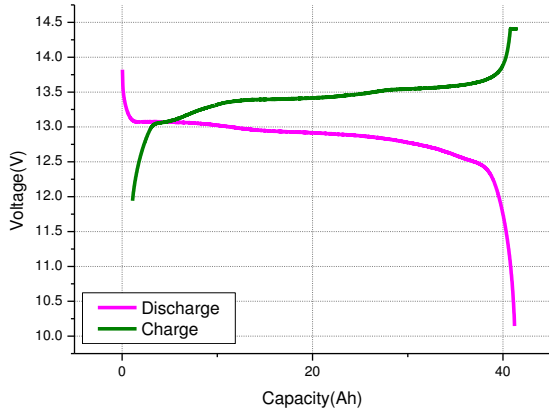


Specification

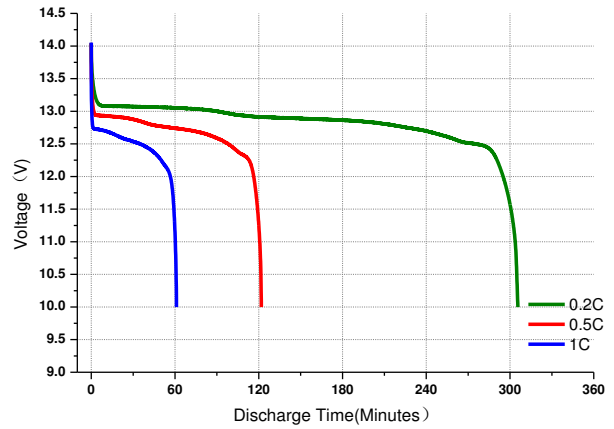
Product Model	JG-4IFR12.8-40-Y (26650-3.2V-4S13P)	
Electrical Characteristics	Normal Voltage	12.8V
	Rated Capacity	40±1Ah(0.2C)
	Energy	About 512Wh
	Internal Resistance	≤40mΩ
	Cycle Life	≥2,000@0.2C (100%DOD)
		≥6,000@0.2C (80%DOD)
≥10,000@0.2C (50%DOD)		
Passive Protection Function	Over charge protection, 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	8A
	Max. Charge Current	20A
Standard Discharge	Continuous Current	20A
	Max Continuous Current	≤40A
	Max. Pulse Current	≤120A(≤1s)
	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
	Dimensions (mm)	(195±1)mm×(165±1)mm×(175±2)mm
	Weight	5.9±0.1Kg
	Terminal	M6
	Protocol (optional)	SMBus/RS485/RS232
	SOC (optional)	LED/LCD
USB(optional)	5.0V1/2A	



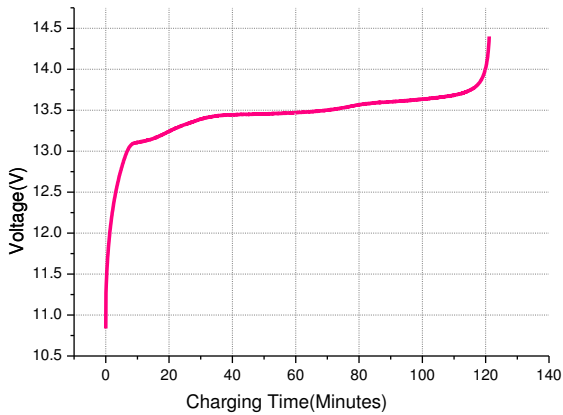
12.8V40Ah Charge-Discharge Curve 0.2C,25°C



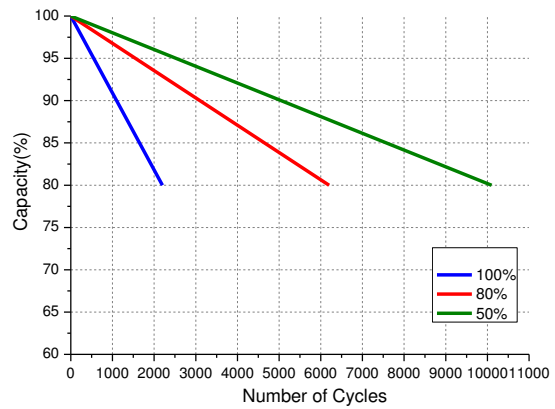
Different Rate Discharge Curve, 25°C



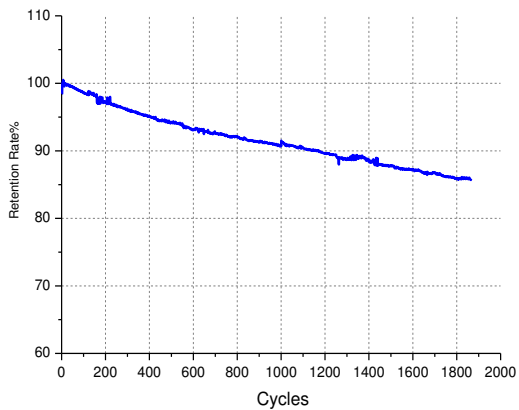
Voltage & Charging Time Curve, 0.5C, 25°C



Different DOD Discharge Cycle Life Curve



Cycles & Capacity Retention Rate



Discharge Curves at Different Temperature

