

SASLi-12100M

12.8V 100Ah Lithium Iron
Phosphate (LiFePO₄) Battery

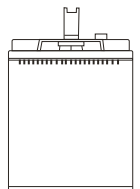
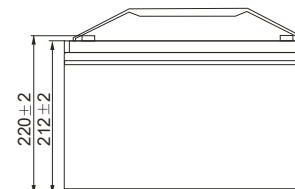
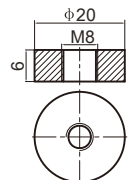
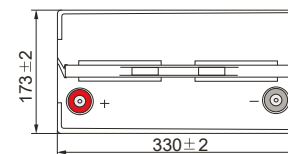
Typical Applications

- Wheelchairs and scooters
- Solar/wind energy storage
- Back-up power for small UPS
- Golf trolleys & buggies
- Electric bikes
- Tools



Features Of LiFePO₄ Battery

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20 C~60 C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.



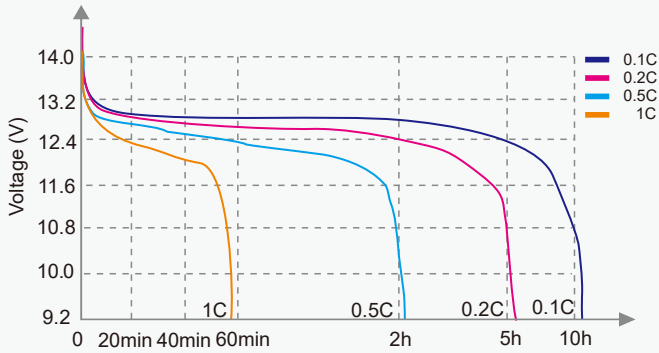
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Energy	1280Wh
	Internal Resistance(AC)	≤20mΩ
	Cycle Life	>2000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @0.5C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	120A(<3s)
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0°C to 55°C (32F to 131F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	-20°C to 45°C (-4F to 113F) @60±25% Relative Humidity
	IP Class	IP65
Mechanical	Approx. Dimensions	330mm*173mm*220mm (12.99in.*6.81in.*8.66in.)
	Approx. Weight	13.60kg (29.98lbs)
	Terminal	M8

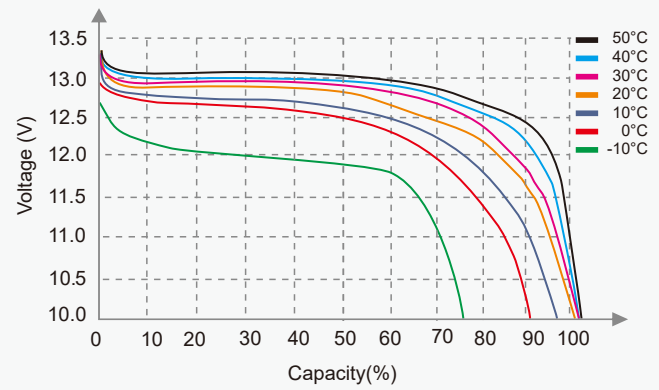
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12.8V 100Ah Lithium Iron Phosphate (LiFePO₄) Battery

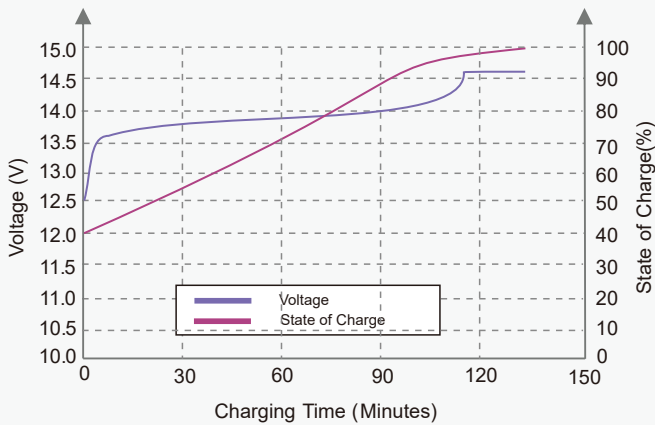
Different Rate Discharge Curve(25°C)



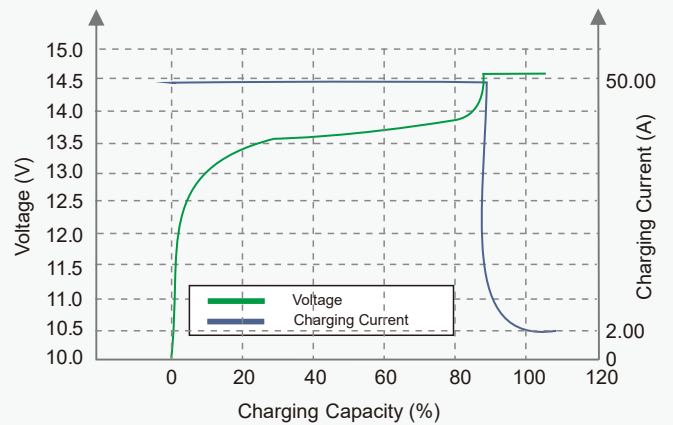
Different Temperature Discharge Curve(0.5°C)



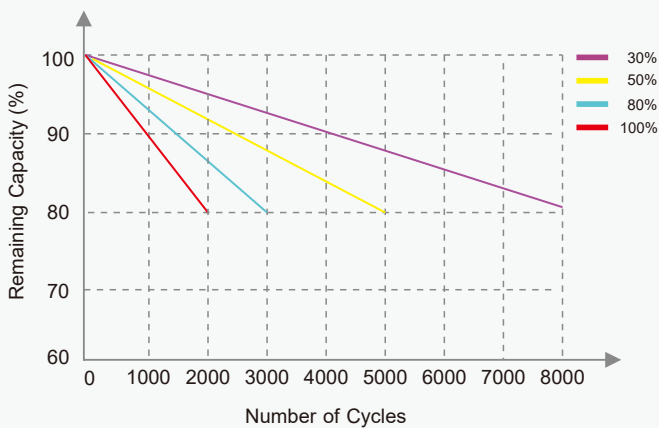
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

