

LFP25.6-40(25.6V40Ah)

Features of LiFePO4 Battery

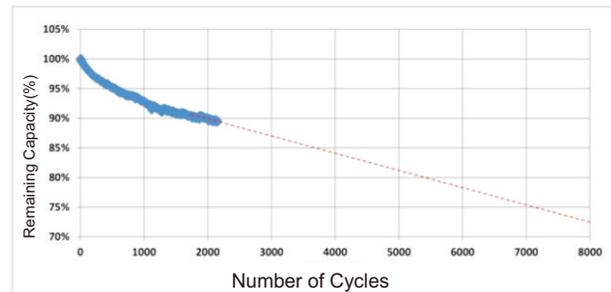
- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement 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.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.



Application

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

Cycle Life Curve



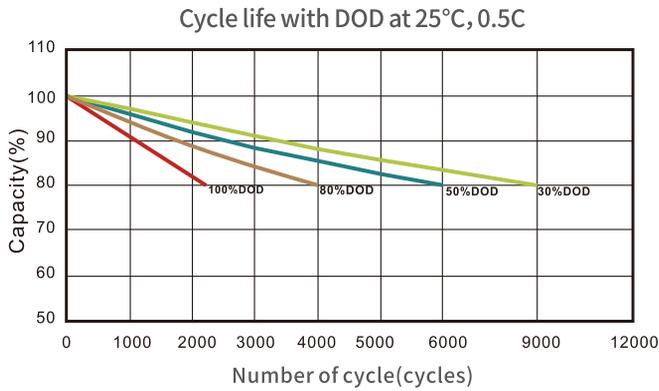
Specification

Electrical Characteristics	Nominal Voltage	25.6V
	Nominal Capacity	40Ah (C ₅ ,25°C)
	Energy	1024Wh
	Internal Resistance	≤150mΩ
	Cycle Life	> 3000 > 6000Cycles @ 0.2C
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2,charge current 0.02C(CC/CV)
	Charger Current	10A
	Max. Charge Current	40A
	Charge Cut-off Voltage	29.6V±0.2V
Standard Discharge	Continuous Current	10A
	Max. Pulse Current	150A(<3s)
	Discharge Cut-off Voltage	21V
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	
Mechanical	Cell & Method	3.2V20AH-8S2P
	Plastic Case	ABS
	Dimensions (in./mm.)	260*168*210 mm
	Weight (lbs./kg.)	9Kg
	Terminal	M6&M8
	Protocol (optional)	NO
	BMS	8S40A

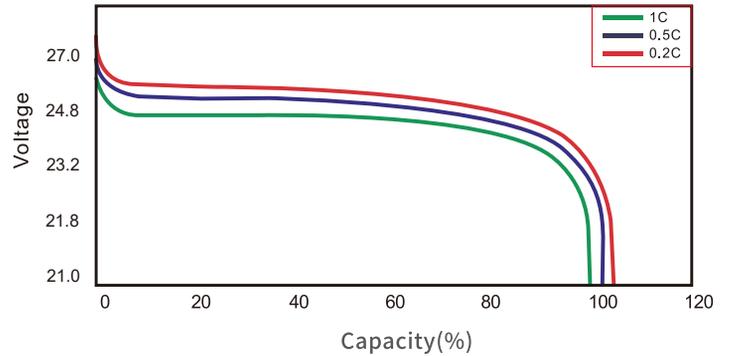
LFP25.6-40(25.6V40Ah)

Model Performance Diagrams

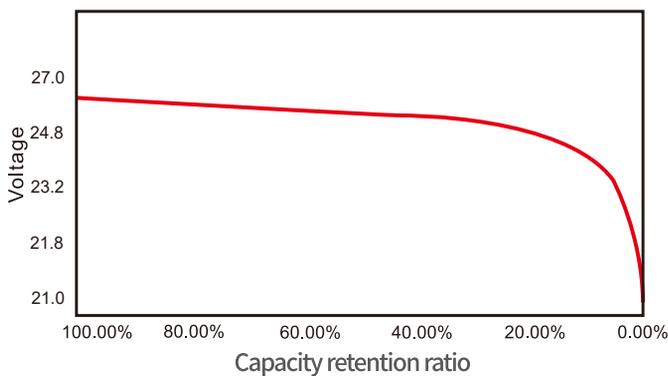
Number of Cycles Vs. DOD



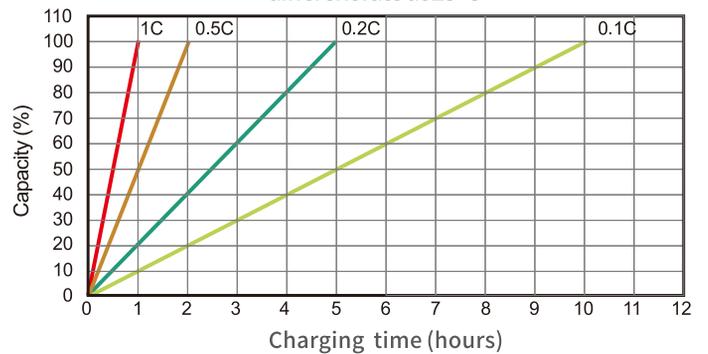
Discharge Performance at R.T.



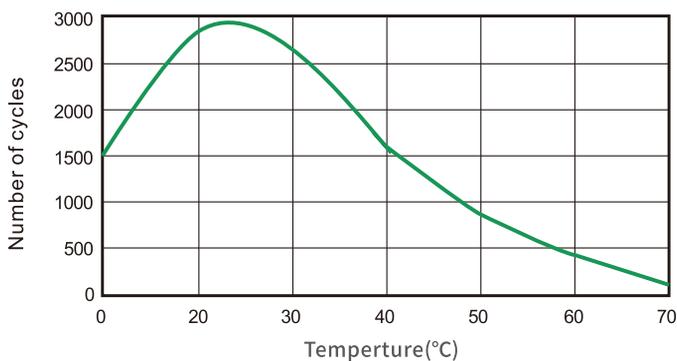
Battery Capacity (C) VS. Open Circuit Voltage (OCV)
SOC Vs OCV



Battery Capacity Vs. Charging Time
Charging capacity(%) VS time with different rate at 25°C



Cycle Life in Relation to Temperature



Temperature Effects on Capacity

