

Lithium Iron Phosphate(LiFePO4 Battery)

LFP 51.2V 5KWh-30KWh

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.

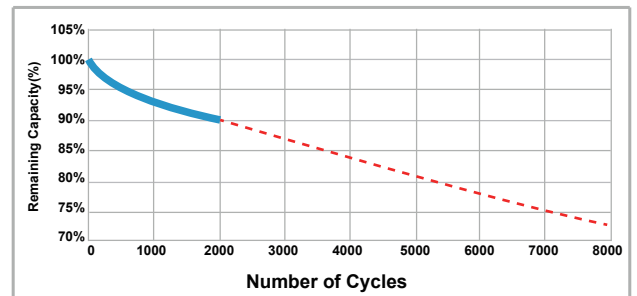


Application

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

Specification

Cycle Life Curve

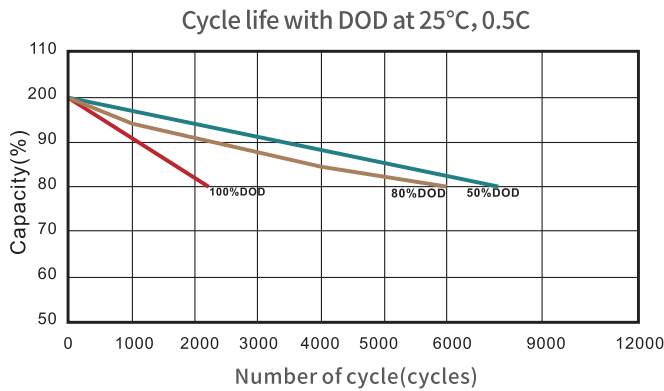


	MODEL	RT-SLB-51.2V5kwh	RT-SLB-51.2V10kwh	RT-SLB-51.2V15kwh	RT-SLB-51.2V20kwh	RT-SLB-51.2V25kwh	RT-SLB-51.2V30kwh
Electrical Characteristics	Nominal Voltage	51.2V					
	Nominal Capacity	200AH					
	Energy	10240Wh					
	Internal Resistance	≤500mΩ					
	Cycle Life	>6000 cycles @0.2C					
	Months Self Discharge	<3%					
	Efficiency of Charge	100% @0.2C					
	Efficiency of Discharge	96-99% @1C					
Standard Charge	Charge Voltage	58.4±0.2V					
	Charge Mode	0.2C to 58.4V, then 58.4, charge current 0.02C(CC/CV)					
	Charger Current	20A	40A	60A	80A	100A	100A
	Max. Charge Current	50A					
	Charge Cut-off Voltage	59.2V±0.2V					
Standard Discharge	Continuous Current	100A					
	Max. Pulse Current	150A(<3s)					
	Discharge Cut-off Voltage	43.2V					
Environmental	Charge Temperature	0°C to 45°C(32F to 113F)@60±25% Relative Humidity					
	Discharge Temperature	-20°C to 60°C(-4F to 140F)@60±25% Relative Humidity					
	Storage Temperature	0°C to 40°C(32F to 104F)@60±25% Relative Humidity					
	Water Dust Resistance	IP20					
Mechanical	Recommend Inverter	6.2kw	6.2kw	8.2kw	8.2kw	10.2kw	10.2kw
	Dimensions (in./mm.)	565*484*395	565*484*540	565*484*685	565*484*830	565*484*975	565*484*1120
	Protocol (optional)	RS485/RS232/CAN					
	BMS	16S100A					

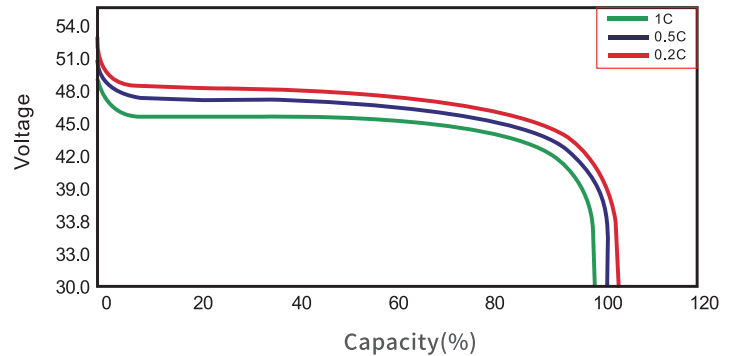
LFP 51.2V 5KWh-30KWh

Model Performance Diagrams

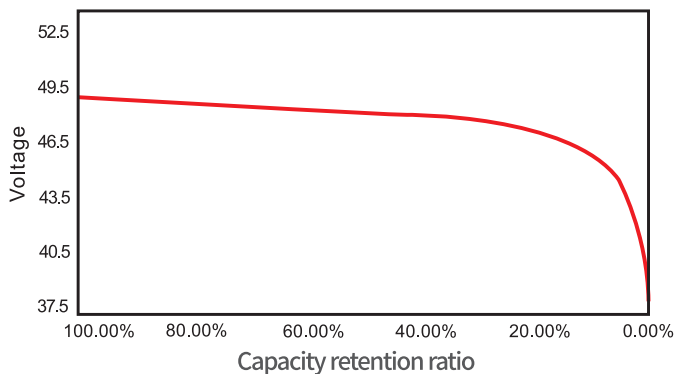
Number of Cycles Vs. DOD



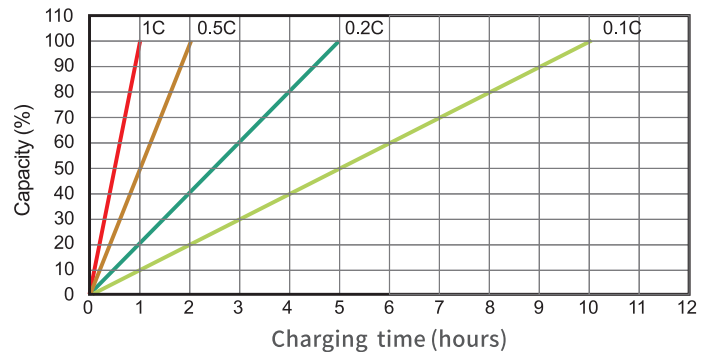
Discharge Performance at R.T.



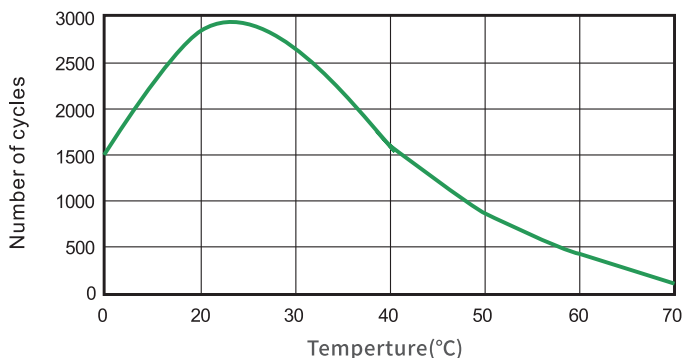
Battery Capacity (C) VS. Open Circuit Voltage (OCV)
SOC Vs OCV



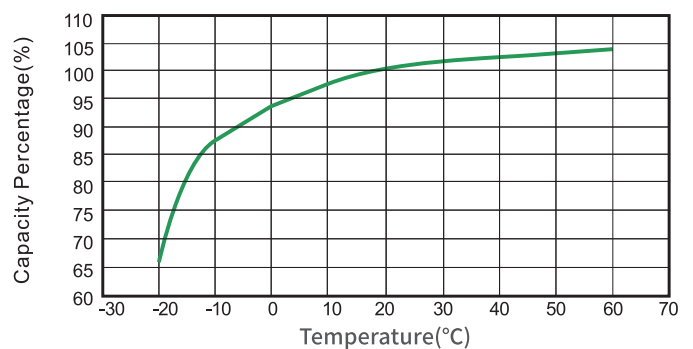
Battery Capacity Vs. Charging Time
Charging capacity(%) VS time with different rate at 25°C



Cycle Life in Relation to Temperature



Temperature Effects on Capacity



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