Restarsolar, power the life

RTLB 51.2-300A(51.2V300Ah)

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.

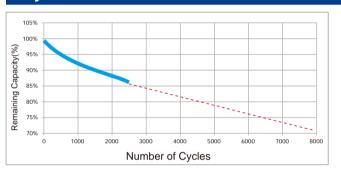
Lithium Battery



Application

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

Cycle Life Curve



Specification

	T T	
	Nominal Voltage	51.2 V
	Nominal Capacity	300Ah (C₅,25°C)
	Energy	15000Wh
Electrical	Internal Resistance	< 50m Ω
Characteristics	Cycle Life	>6000 cycles @25°C
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	57.6V
	Charge Mode	0.2C (CC/CV)
	Charger Current	40A
	Max. Charge Current	120A (When the charging current is greater than 55A, turn on the current limiting, and limit the current by 10A)
	Charge Cut-off Voltage	59.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	150A(<3s)
	Discharge Cut-off Voltage	44V
Environmental	Charge Temperature	0 $^{\circ}\text{C}$ to 45 $^{\circ}\text{C}$ (32F to 113F) $@60 \pm 25\%$ Relative Humidity
	Discharge Temperature	-20 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$ (-4F to 140F) $@60 \pm 25\%$ Relative Humidity
	Storage Temperature	0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$ (32F to 104F) $@60 \pm 25\%$ Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	3.2V63AH-16S4P
	Plastic Case	
	Dimensions (in./mm.)	860*620*200 ±2mm
	Weight (lbs./kg.)	105Kg
	Terminal	180A terminal
	Protocol (optional)	RS485/CAN
	BMS	16S100A



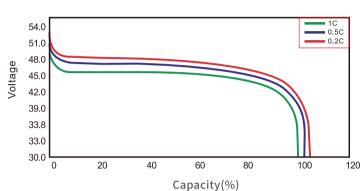
RTLB 51.2-300A(51.2V300Ah)

Model Performance Diagrams

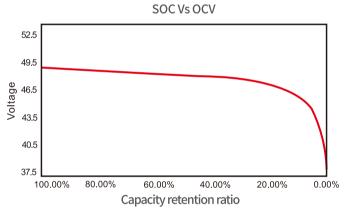
Number of Cycles Vs. DOD

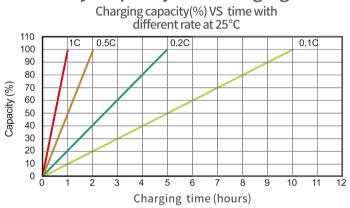
Cycle life with DOD at 25°C, 0.5C 110 200 Capacity(%) 50%DOD 30%DOD 70 60 50 4000 5000 12000 1000 2000 3000 9000 Number of cycle(cycles)

Discharge Performance at R.T.

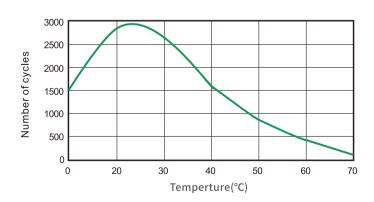


Battery Capacity (C) VS. Open Circuit Voltage (OCV) Battery Capacity Vs. Charging Time

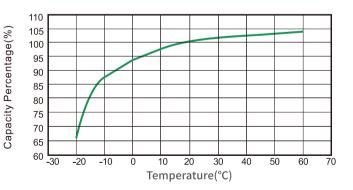




Cycle Life in Relation to Temperature



Temperature Effects on Capacity



www.restarsolar.com



sales@restarsolar.com

Add: 30 Yongshun Road, Zhulin Town, Jintan District, Changzhou, Jiangsu Province, China.

