



RP lithium series batteries provide superior performance, capacities and reliability. Using state of high power cell technology, the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial.

RP lithium batteries are widely used in industrial, residential, commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart

Applications



BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4	Voltage Window	40.5V-54.75V
Nominal Voltage	48V	Recommend Charge Voltage	52.5V
Nominal Capacity	200Ah	Max Charge Voltage	54.75V
Energy Density	9600Wh	Recommend Charge Current	50A
Dimensions(LxWxH)	445*420*222mm	Max Charge Continuous Current	100A
Weight	68KGS	Recommend Discharge Voltage	43.5V
Terminal Type	M6	Max Discharging Voltage	40.5V
Case Material	SPCC	Max Continuous Discharge Current	100A
BMS build-in	Yes	Peak Discharge Current	150A
AH Efficiency – round trip	>98%	Cycle life(0.2C, 25°C@80% DOD)	6000 Cycles
Self Discharge per Month	<3%	Discharge Temperature	(- 20 to 65)°C
Max in Parallel	16PCS	Charge Temperature	(0 to 55)°C
Max in Series	Not Allowed	Storage Temperature	(-5 to 45)°C
LCD Screen	Optional	Bluetooth(App)	Optional

BMS CHARACTERISTICS

Primary Charging Protection	Current :105A	Delay Time: 2s
Second Charging Protection	Current :110A	Delay Time: 1s
Primary Discharging Protection	Current :105A	Delay Time: 2s
Second Discharging Protection	Current :110A	Delay Time: 100ms
Over Charge Voltage Protection	Voltage :54.75V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :40.5V	Delay Time: 1~2s
Temperature Protection	PCB Temperature ≥95 Recover ≤85	°C
Communication Port	Major RS485, optional for CAN / Dryport, customized acceptable	

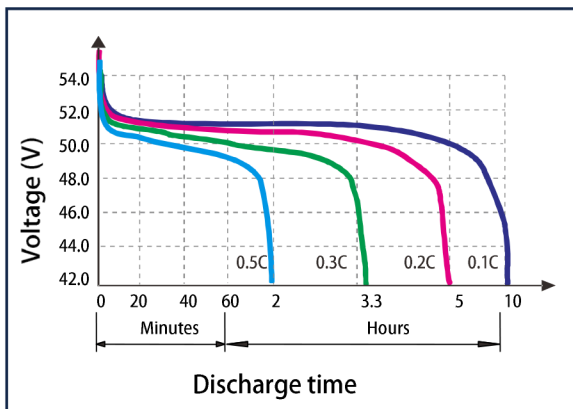
Constant Current Discharge Data (Amperes @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (40.5V)	/	100A	67A	50A	40A	20A	10A

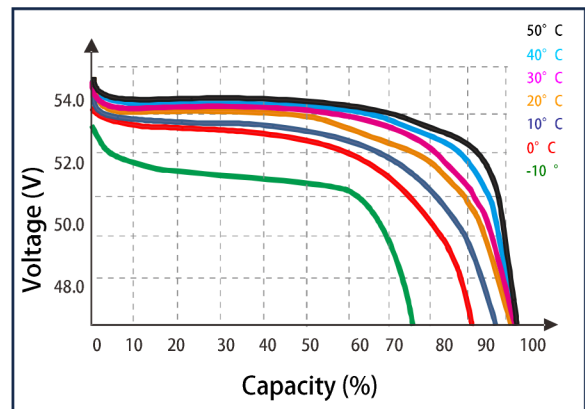
Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (40.5V)	/	4800W	3200W	2400W	1920W	960W	480W

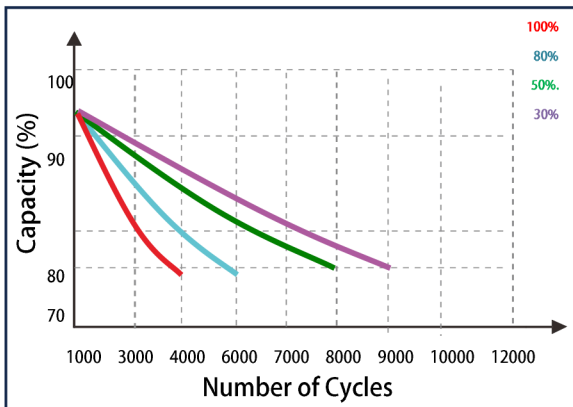
Discharge characteristics (25°C)



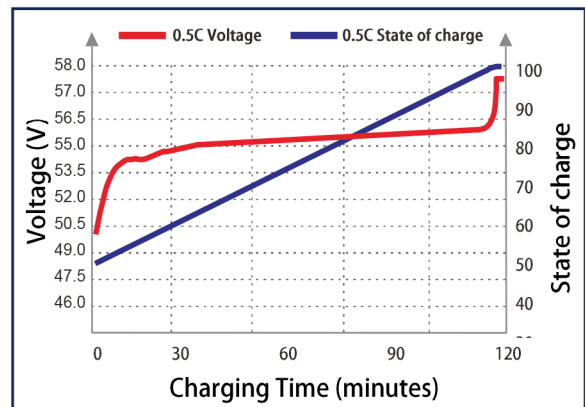
Different Temperature Discharge Curve (0.5C)



Different DOD Discharge cycle life Curve 0.2C 25°C



State of Charge Curve (0.5C, 25°C)



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity/