



Su-mak 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.

Su-mak 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 and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

## Applications



## BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4	Voltage Window	22.4V-28.8V
Nominal Voltage	25.6V	Recommend Charge Voltage	28.8V
Nominal Capacity	200Ah	Max Charge Voltage	29.2V
Energy Density	5120Wh	Recommend Charge Current	50A
Dimensions(LxWxH)	625*420*154mm	Max Continuous Current	150A
Weight	48KGS	Recommend Discharge Voltage	22.4V
Terminal Type	Plug-in	Max Discharging Voltage	20V
Terminal Torque	8.5NM	Max Continuous Discharge Current	150A
Case Material	ABS	Peak Discharge Current	200A
BMS build-in	Yes	Cycle life(0.2C, 25°C@80% DOD)	6000 Cycles
AH Efficiency – round trip	>98%	Discharge Temperature	(- 20 to 55)°C
Self Discharge per Month	<3%	Charge Temperature	( 0 to 55)°C
Max in Parallel	16PCS	Storage Temperature	(- 20 to 45)°C
Max in Series	Not Allowed	Bluetooth(App)	Optional
LCD Screen	Optional	WIFI function	Optional

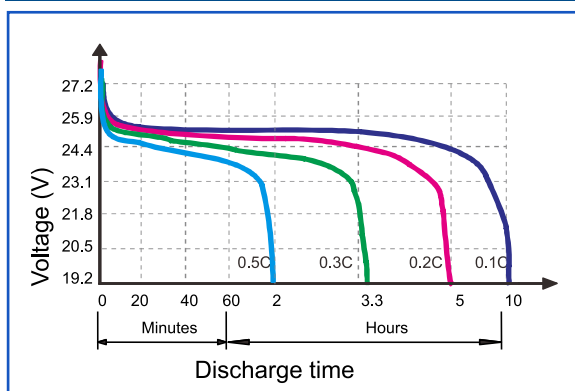
## BMS CHARACTERISTICS

Primary Charging Protection	Current :155A	Delay Time: 20s
Second Charging Protection	Current :160A	Delay Time: 2~3s
Primary Discharging Protection	Current :155A	Delay Time: 30s
Second Discharging Protection	Current :160A	Delay Time: 2~3s
Over Charge Voltage Protection	Voltage :29.2V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :20V	Delay Time: 1~2s
Temperature Protection	PCB Temperature≥95 Recover≤85	°C °C
Communication Port	No	

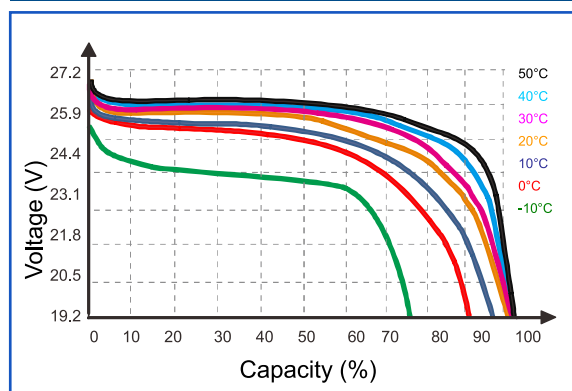
Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (22.4V)	---	100A	66.67A	50A	40A	20A	10A

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (22.4V)	---	2560W	1706.67W	1280W	1024W	512W	256W

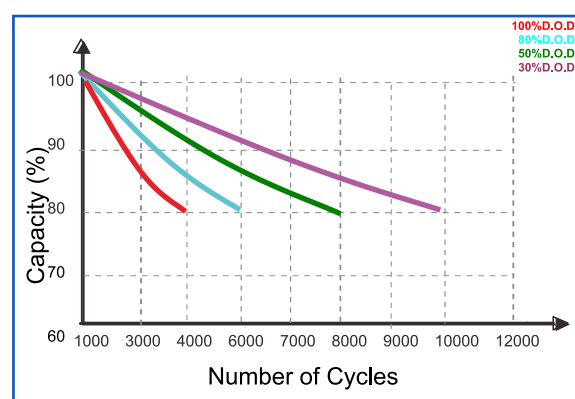
Discharge characteristics (25°C)



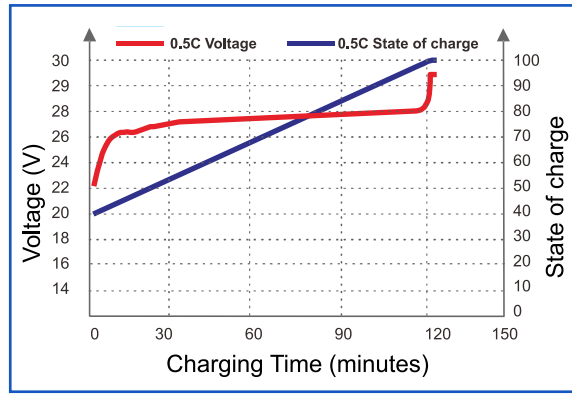
Different Temperature Discharge Curve (0.5C)



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/

Note 3: Parallel connection is only for longer backup time, not for larger output power.