Lithium lifePO4 Battery

ML200-25.6

Marvel 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.

Marvel 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

UPS

BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4	Voltage Window	21.6-29.2V
Nominal Voltage	25.6V	Recommend Charge Voltage	28.8 ± 0.20V
Nominal Capacity	200Ah	Max Charge Voltage	29.2 ± 0.20V
Energy Density	5120Wh	Recommend Charge current	80A
Dimensions(LxWxH)	600*400*155mm	Max Continuous Current	100A
Weight	51KGS	Recommend Discharge voltage	22.4 ± 0.20V
Terminal Type	T14	Max Discharging Voltage	21.6 ± 0.20V
Terminal Torque	8.5	Max Continuous Discharge current	100A
Case Material	SPCC	Peak Discharge Current	100A
BMS build-in	Yes	Cycle life(25°C@100% DOD)	6000 Cycles
Efficiency – round trip	>99.5%	Discharge Temperature	(- 20 to 55)°C
Self Discharge per Month	<3%	Charge Temperature	(0 to 45)°C
Max in parallel	16	Storage Temperature	(- 10 to 30)°C
Max in Series	Max 2	Bluetooth(App)	Optional
LCD Screen	Optional	Heating function	Optional

BMS CHARACTERISTICS

Primary Charging Protection	Current :105A		Delay Time: 1000ms
Second Charging Protection	Current :110A		Delay Time: 500ms
Primary Discharging Protection	Current :110A		Delay Time: 5s ±2s
Second Discharging Protection	Current :150A		Delay Time: 5s ±2s
Over charge Voltage protection	Voltage :29.2V		Delay Time: 500ms
Over Discharge Voltage protectiont	Voltage :21.6V		Delay Time: 500ms
Temperature Protection	PCB	temperature≥95	°C
		Recover≤85	°C
Communication Port	Major RS485, optional for CAN / Dryport , customized acceptable		

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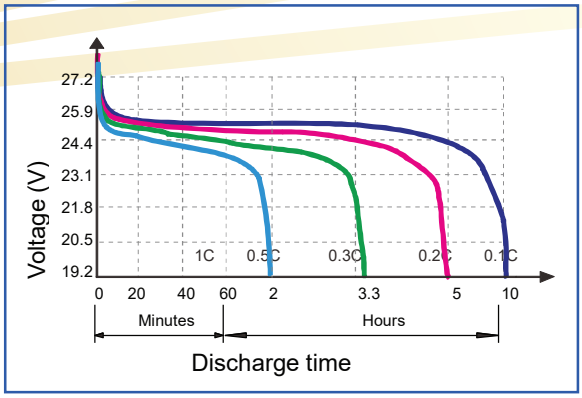
Constant Current Discharge Data (Amperes @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (21.6V)	---	100A	66.7A	50A	40A	20A	10A

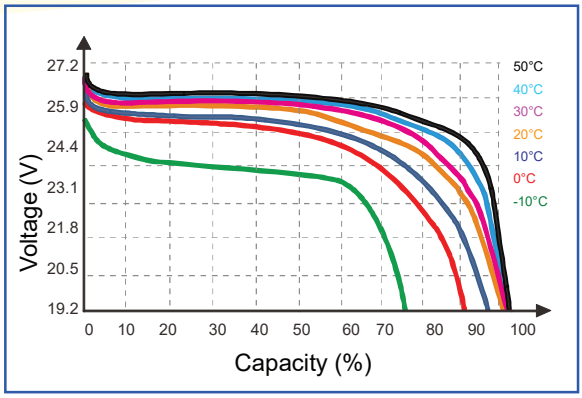
Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (21.6V)	---	2560W	1706.7W	1280W	1024W	512W	256W

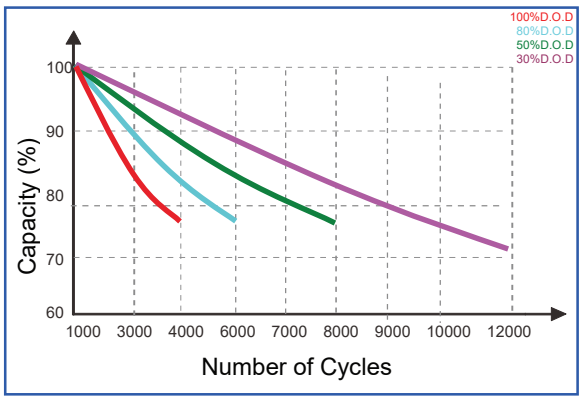
Discharge characteristics (25 °C)



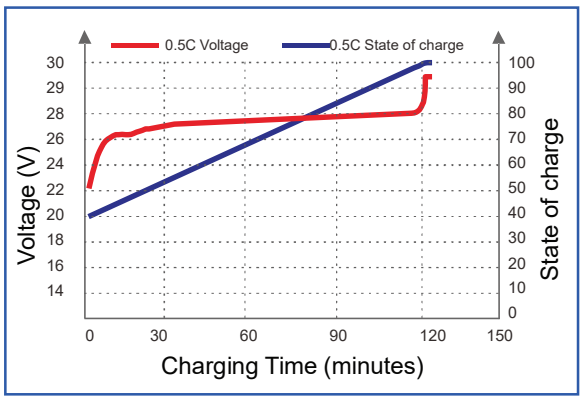
Different Temperature Discharge Curve (0.5C)



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.

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