

Lithium lifePO4 Battery

ML200-51.2

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.



































BATTERY SPECIFICATIONS

LiFePO4 43.2V-57.6V Battery type-Chemistry Voltage Window Nominal Voltage 51.2V 56V Recommend Charge Voltage Nominal Capacity 200Ah Max Charge Voltage 57.6V **Energy Density** 10240Wh Recommend Charge Current 80A Dimensions(LxWxH) 400*240*650mm Max Continuous Current 100A Around 86KGS 46V Recommend Discharge Voltage Terminal Type М6 Max Discharging Voltage 43.2V SPCC 100A Case Material Max Continuous Discharge Current BMS build-in Yes Peak Discharge Current 175A AH Efficiency - round trip >98% Cycle life(25°C@80% DOD) 6000 Cycles Self Discharge per Month <3% Discharge Temperature (- 20 to 55)°C Max in Parallel 16PCS Charge Temperature (0 to 55)°C Max in Series Not Allowed Storage Temperature (- 20 to 45)°C LCD Screen Optional Bluetooth(App) Optional

BMS CHARACTERISTICS

Primary Charging Protection Current :105A Second Charging Protection Current:110A Delay Time: 2~3ms Primary Discharging Protection Current :110A Delay Time: 30s Second Discharging Protection Current:150A Delay Time: 2~3ms Over Charge Voltage Protection Voltage :59.2V Delay Time: 1~2s Over Discharge Voltage Protection Voltage :43.2V Delay Time: 1~2s PCB Temperature≥95 Temperature Protection Recover≤85 Communication Port Major RS485, optional for CAN / Dryport, customized acceptable

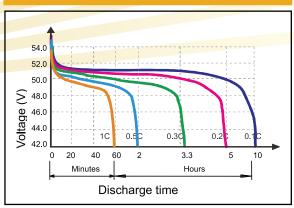
Constant Current Discharge Data (Amperes @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (43.2V)		50A	66.7A	50A	40A	20A	10A

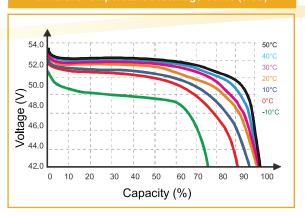
Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (43.2V)		5120W	3413.3W	2560W	2048W	1024W	51.2W

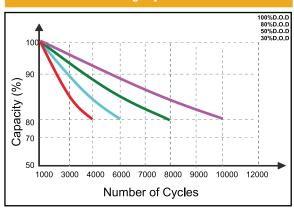
Discharge characteristics (25°C)



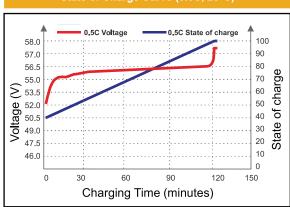
Different Temperature Discharge Curve (0.5C)



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.