



ML200-48-W

Lithium Battery

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.

Marvellithium 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.



BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4	Voltage Window	40.5V-54.75V
Cells	Grade A new cells with QR code	Recommend Charge Voltage	54.0V
Nominal Voltage	48V	Max Charge Voltage	54.75V
Nominal Capacity	200Ah	Recommend Charge Current	50A
Energy Density	9600Wh	Max Continuous Current	150A
Dimensions(LxWxH)	680*415*235mm	Recommend Discharge Voltage	42.0V
Weight	80KGS	Max Discharging Voltage	40.5V
Terminal Type	Plug-in	Max Continuous Discharge Current	150A
Terminal Torque	8.5NM	Peak Discharge Current	200A
Case Material	SPCC	Cycle Life(0.2C, 25°C@80% DOD)	6000 Cycles
BMS build-in	Yes	Discharge Temperature	(- 20 to 55)°C
AH Efficiency – round trip	>98%	Charge Temperature	(0 to 55)°C
Self Discharge per Month	<3%	Storage Temperature	(- 20 to 45)°C
Max in Parallel	16PCS	Bluetooth(App)	Optional
Max in Series	Not Allowed	Heating Function	Optional
LCD Screen	Optional		

BMS CHARACTERISTICS

Primary Charging Protection	Current :155A	Delay Time: 2s
Second Charging Protection	Current :160A	Delay Time: 1s
Primary Discharging Protection	Current :155A	Delay Time: 1s
Second Discharging Protection	Current :200A	Delay Time: 100ms
Over charge Voltage Protection	Voltage :54.75V	Delay Time: 1s
Over Discharge Voltage Protection	Voltage :40.5V	Delay Time: 1s
Temperature Protection	PCB Temperature≥95 °C Recover≤85 °C	
Communication Port	Major RS485, optional for CAN / Dry port, customized acceptable	

Constant Current Discharge Data (Amperes @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (44.8V)	--	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 (44.8V)	--	4800W	3200W	2400W	1920W	960W	480W