



ML 100-51.2-W

LiFePo4 Lithium Battery

Marvel Tech 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 tech 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.



(Optional Indicators)

Battery Specifications

Cells	Grade A new cells with QR code	Voltage Window	44.8V-57.6V
Battery type-Chemistry	LiFePO4	Recommend Charge Voltage	56 V± 0.2
Nominal Voltage	51.2V	Max Charge Voltage	59V
Nominal Capacity	100Ah	Recommend Charge Current	20A
Energy Density	5120Wh	Max Continuous Current	100A
Dimensions(LxWxH)	510*475*160mm	Recommend Discharge Voltage	46V
Weight	50KGS	Max Discharging Voltage	44.8V
Terminal Type	Plug-in	Max Continuous Discharge Current	100A
Terminal Torque	8.5NM	Peak Discharge Current	150A/3S
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 :105A	Delay Time: 20s
Second Charging Protection	Current :110A	Delay Time: 2~3s
Primary Discharging Protection	Current :110A	Delay Time: 30s
Second Discharging Protection	Current :150A	Delay Time: 2~3s
Over charge Voltage Protection	Voltage :59.2V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :43.2V	Delay Time: 1~2s
Temperature Protection	PCB Temperature≥95 Recover≤85	°C °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	50A	33.3A	25A	20A	10A	5A

Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (44.8V)	5120W	2560W	1706.7W	1280W	1024W	512W	256W