



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



## BATTERY SPECIFICATIONS

Battery type - Chemistry	LiFePO4	Voltage Window	46.4~57.6V
Nominal Voltage	51.2 V	Recommend Charge Voltage	56.0V
Nominal Capacity	350Ah	Max Charge Voltage	57.6V
Energy Density	18 kWh	Recommend Charge Current	100 A
Dimensions(LxWxH)	825*415*235 mm	Max Charge Continuous Current	150 A
Weight	145 KGS	Recommend Discharge Voltage	48V
Terminal Type	Plug-in	Max Discharging Voltage	46.4V
Case Material	SPCC	Max Continuous Discharge Current	150 A
BMS buildn	Yes		
AH Efficiency – round trip	>98%	Cycle life(0.2C, 25°C@80% DOD)	8000 Cycles
Self Discharge per Month	<3%	Discharge Temperature	(- 20 to 60)°C
Max in Parallel	16PCS	Charge Temperature	( 0 to 55)°C
Max in Series	Not Allowed	Storage Temperature	(-5 to 30)°C
LCD Screen	Yes	Bluetooth(App)	Yes

## BMS CHARACTERISTICS

Primary Charging Protection	Current : 155 A	Delay Time: 2s
Second Charging Protection	Current :160A	Delay Time:1 s
Primary Discharging Protection	Current :155A	Delay Time:2s
Second Discharging Protection	Current :160A	Delay Time:100 ms
Over Charge Voltage Protection	Voltage:57.6V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :46.4V	Delay Time: 1~2s
Temperature Protection	PCB Temperature≥95 Recover≤85	°C
Communication Port	RS485, RS232, CAN , Dryport,	

#### Constant Current Discharge Data (Amperes @ 25 °)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (46.4V)	/	/	117A	87.5A	70A	35A	17.5A

#### Constant Power Discharge Data (Watts @ 25 °C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (46.4V)	/	/	5973W	4480W	3584W	1792W	896W