

ML 280-51.2

LiFePo4 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.

Marvel lithium batteries are widely used in industrial, residential, commercial, and private applications. The maintenance-free construction and advanced design features make the lithium series the definitive choice for various markets. Like solar and renewable energy storage, electric vehicles, golf carts, and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solutions; Mobility and Medical Equipment; Telecom, Broadband, and Cable TV; UPS systems.







Battery Specifications			
Battery type-Chemistry	LiFePO4		
Nominal Voltage	51.2V		
Nominal Capacity	280Ah		
Energy Density	14336Wh		
Voltage Window	43.2V-58.4V		
Recommend Charge Voltage	57.6V		
Max Charge Voltage	58.4V		
Recommend Charge Current	140A		
Max Continuous Current	150A		
Recommend Discharge Voltage	44.8V		
Max Discharging Voltage	43.2V		
Max Continuous Discharge Current	150A		
Peak Discharge Current	200A		
Cycle life (25°C@80% DOD)	6000 Cycles		
Discharge Temperature	(- 20 to 55)°C		
Charge Temperature	(0 to 55)°C		
Storage Temperature	(- 20 to 45)°C		
AH Efficiency – round trip	>98%		
Self Discharge per Month	<3%		
Max in Parallel	16PCS		
Max in Series	Not Allowed		
BMS build-in	Yes		
Bluetooth (App)	Optional		
LCD Screen	Optional		
WIFI function	Optional		
Case Material	SPCC		
Dimensions (LxWxH)	897x413.4x233mm		
Weight	114.3KGS		
Terminal Type	Plug-in		
reminar type			





BMS Cha	aracteristics				
Primary Chargin	g Protection Current	155A	Delay Time	20s	
Second Charging	g Protection Current	160A	Delay Time	2~3s	
Primary Discharging Protection Current		155A	Delay Time	10s	
Second Discharging Protection Current		200A	Delay Time	100ms	
Over Charge Voltage Protection Voltage		58.4V	Delay Time	1~2s	
Over Discharge Voltage Protection Voltage		43.2V	Delay Time	Delay Time	
Temperature Protection	PCB				
	Temperature		≥95C°		
	Recover		≤85C°		
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 (22.4V)	-	140A	93.3A	70A	56A	28A	14A		
Constant Power Discharge Data (Watts @ 25°C)									
Discharge Time	1h	2h	3h	4h	5h	10h	20h		
Cut off voltage (22.4V)	-	7168W	4779W	3584W	2867W	1434W	717W		

