

Lithium Iron Phosphate (LiFePO4) Battery

PW01 48100/48150/48200 (LFP 51.2V 100Ah/150Ah/200Ah)



Typical Applications

- Solar/Wind Energy Storage
- Back-up Power for UPS/ EPS
- Telecommunication
- Marine Boats
- DC Power Supply
- Household Energy Storage
- Communication base station power supply

Electrical Characteristics

Nominal Voltage	51.2V		
Nominal Capacity	100Ah	150Ah	200Ah
Minimum Capacity	100Ah	150Ah	200Ah
Energy	5120Wh	7680Wh	10240Wh
Cycle Life	>2000 cycles @0.5C 100%DOD		
Months Self Discharge	<3%		
Efficiency of Charge	100% @0.5C		
Efficiency of Discharge	96~99% @0.5C		
BMS Functions	Over charge, over discharge, over current, short circuit and temperature protection		
Maximum Modules in parallel	15 pcs		

Environmental

Charge Temperature	0 °C to 55 °C (32F to 131F) @60±25% Relative Humidity
Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
Storage Temperature	-20 °C to 45 °C (-4F to 113F) @60±25% Relative Humidity
IP Class	IP20

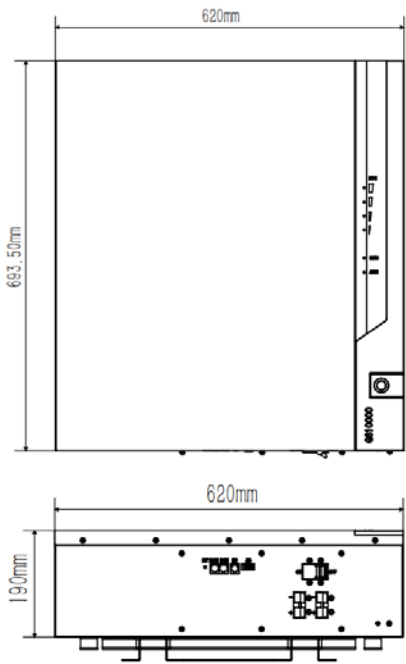
Standard Charge and Discharge

Charge Voltage	57.6-58.4V		
Charge Mode	0.2C to 58.4V, then 58.4V,charge current to 0.02C (CC/CV)		
Charge Current	20A	30A	40A
Max. Charge Current	100A		
Charge Voltage	57.6-58.4V		
Max Continuous Discharge Current	100A (Can be customized)		
Peak Discharge Current	115A 1-3S		
Discharge Cut-off Voltage	40V±0.5V		

Mechanical

Shell Material	SPCC		
Approx. Dimensions	L693.5xW620xH190mm		
Approx. Weight	50kgs	75kgs	95kgs
Terminal Type	Anderson 120A		

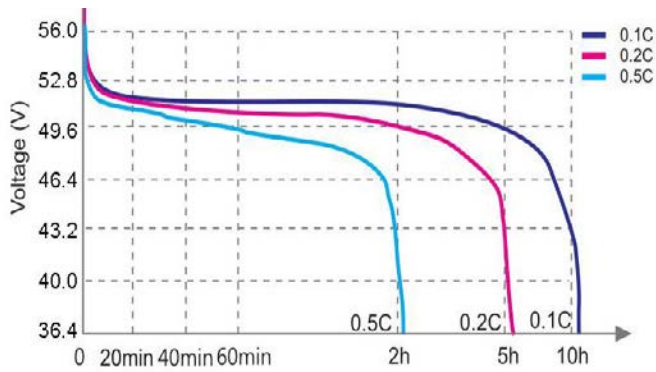
Dimensional Specifications



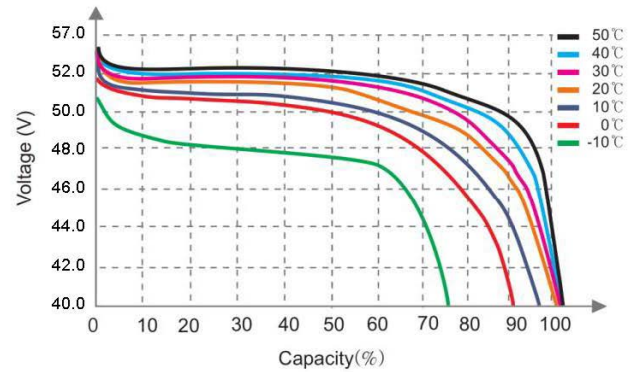
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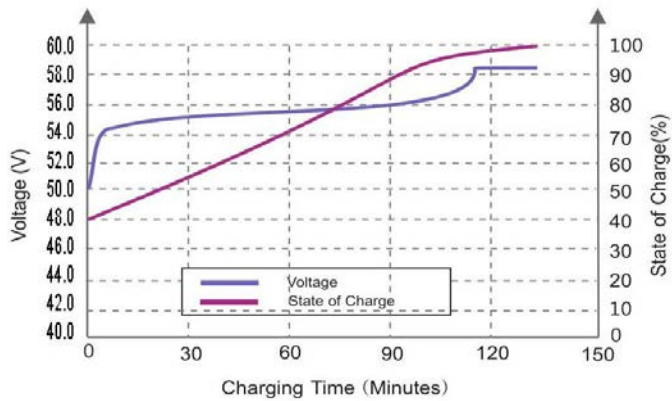
Different Rate Discharge Curve (25°C)



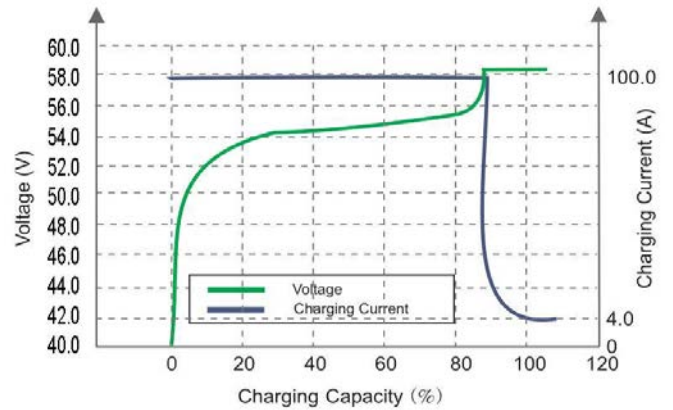
Different Temperature Discharge Curve (0.5C)



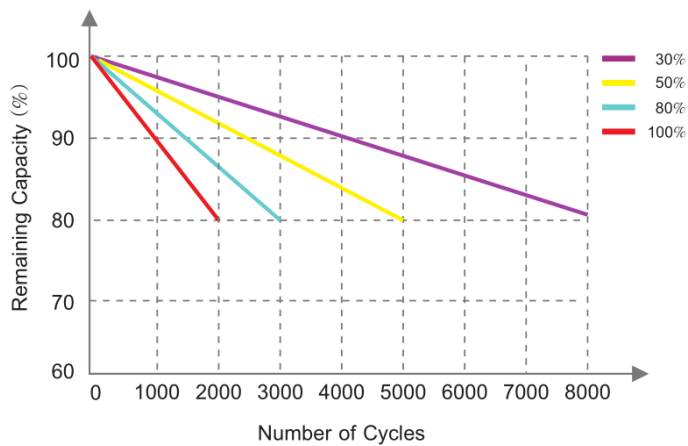
State of Charge Curve (0.5C, 25°C)



Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve (0.5C)



Different Temperature Self Discharge Curve

