

TB - 48100S3 51.2V100Ah

Rechargeable Li-ion
ESS Battery-LFP
Series



Product Features



Prismatic LiFePO4 cell-3.2V , higher reliability



Longer cycle life ≥ 6000 cycles@80% DOD.



Fully replaceable with current batteries (Lead-acid, Ni-Cd)



Built-in BMS management system with interface RS485/CAN



Maintenance free with standard 19" design easy installation



Optimum adaptation to variety applications with parallel expansion support

Product Application



Communication



Data Center



Industrial Application



Wind Power



Solar Power



Electric Power

Nominal Characteristics

Nominal Voltage	51.2V
Nominal Capacity (@0.2C)	100Ah
Nominal Energy	5120Wh
Internal Resistance	$\leq 30m\Omega$
Self Discharge Rate	$\leq 3.5\%$ per month
Cycle Life(@25°C,80%DoD)	≥ 6000 Cycles
Battery Parallel Connected Function	Max 10 groups in parallel, recommended under 6 groups

Charging Specifications

Recommended Charging Voltage	56.0-57.6V
Recommended Charging Current	50A
Max.Charging Current	100A

Discharging Specifications

Discharging Cut-off Voltage	44.8V
Recommended Discharge Current	50A
Max.Discharging Continuous Current	100A

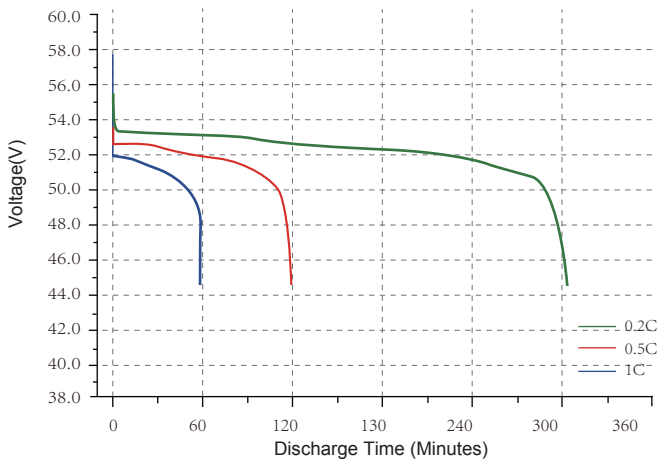
Mechanical Characteristics

Width	440mm
Depth	550mm
Height	133mm
Total Width	483mm(19" Rack mounted type)
Weight	Approx.46Kg
Communication Interface	R485/CAN

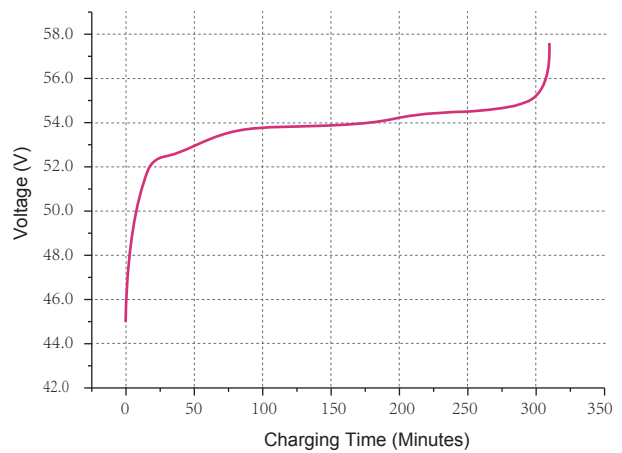
Operating Conditions

Charge Temperature	0°C to 45°C (32°F to 113°F)
Discharge Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	0°C to 45°C (32°F to 113°F)
Safety Standard	UN38.3(battery)
Water Dust Resistance	IP30

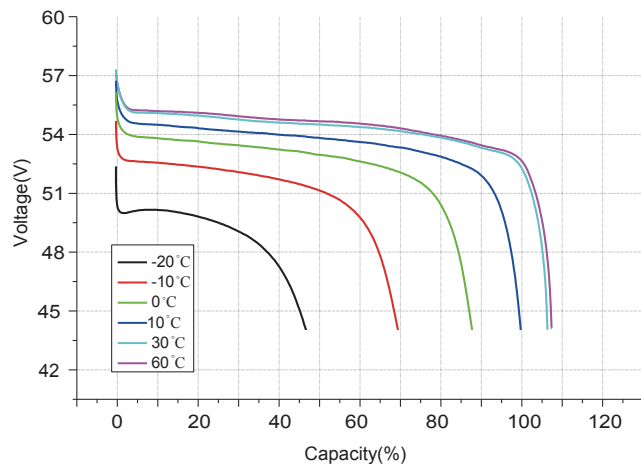
Discharging curve at different rate @25°C



Charging Characteristic @0.2C,25°C



Capacity under different Temp.



Cycle Life under different DOD @0.5C,25°C

