

YF-48100M (48V100Ah)

Rechargeable Li-ion Battery-Industrial Battery-LFP Series



Product Features



**Steel case cell-
LFP36130235A(3.2V100AH)
higher reliability**



**Longer cycle life
1500 cycles@80%DOD.**



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



**Built-in BMS management system
with interface RS485/RS232**



**Maintenance free with standard design easy
installation**



**Optimum adaptation to variety applications
with series & parallel expansion support**

Product Application



Communication



Data Center



Industrial Application



Wind Power



Solar Power



Electric Power

Nominal Characteristics

Nominal Voltage	48V
Nominal Capacity (@0.2C)	100Ah (16S1P)
Nominal Energy	4800Wh
Internal Resistance	45mΩ
Self Discharge Rate	≤3.5% per month
Cycle Life (@25°C,0.2C,80%DOD)	1500 Cycles
Parallel Connected Function	Max. 16 groups in parallel, recommended ≤ 12 groups
Series Connected Function	Not supported

Charging Specifications

Recommended Charging Voltage	52.5V~54V
Max. Charging Current	50A

Discharging Specifications

Discharging Cut-off Voltage	42V
Max. Discharging Continuous Current	50A
Max. Discharging Peak Current	100A, <3S

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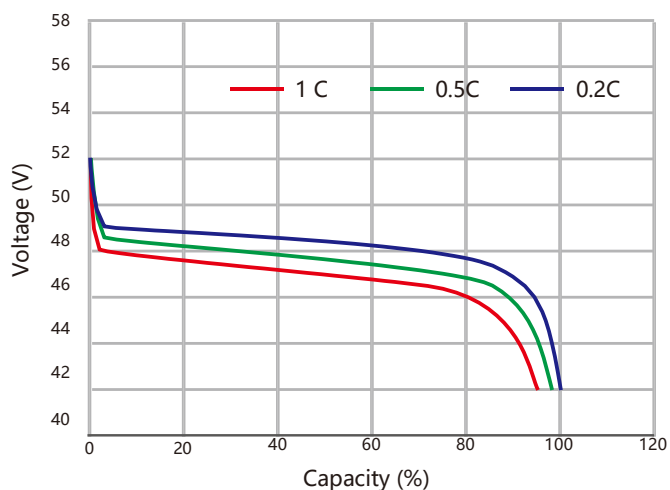
Mechanical Characteristics

Width	310mm
Length	630mm
Height	300mm
Weight	50.5Kg
Communication Interface	RS485/RS232

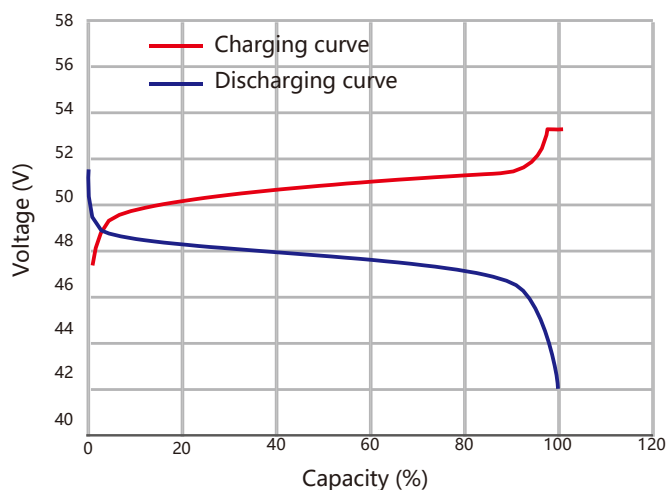
Operating Conditions

Charge Temperature	0°C~45°C (32°F~113°F)
Discharge Temperature	-20°C~60°C (-4°F~140°F)
Storage Temperature	0°C~45°C (32°F~113°F)
Safety Standard	UL 1642 at cell level
Water Dust Resistance	IP30

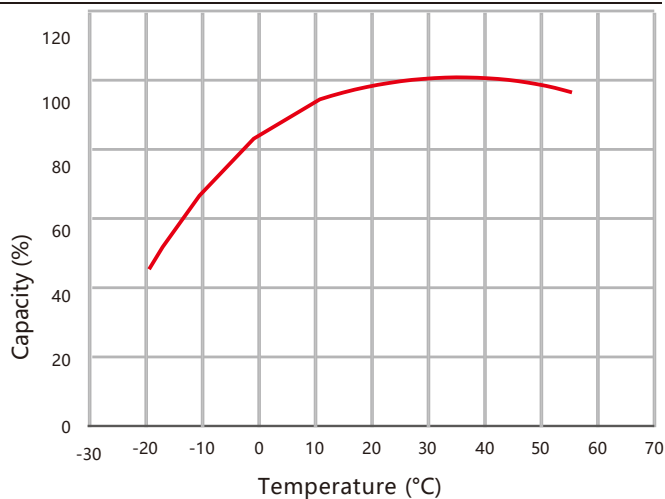
Rating Performance @25°C



Discharge and Charge @25°C, 0.2C



Capacity under different Temp.



Cycle Life under different Temp.

