

TRLiF-4812M (48V12Ah)

Rechargeable Li-ion Battery-Industrial Battery-LFP Series



Product Features



Cylindrical LFePO₄ cell-32700 (3.2V 6~6.3Ah), higher reliability



Longer cycle life
3500 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 19" 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)	12Ah (15S2P)
Nominal Energy	576Wh
Internal Resistance	140mΩ
Self Discharge Rate	≤3.5% per month
Cycle Life (@25°C,0.2C,80%DOD)	3500 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	5A

Discharging Specifications

Discharging Cut-off Voltage	42V
Max. Discharging Continuous Current	10A
Max. Discharging Peak Current	12A, <3S

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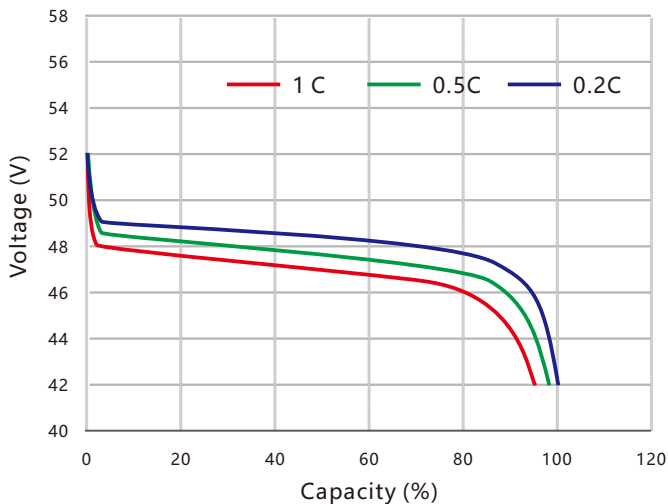
Mechanical Characteristics

Width	483mm (19" Rack mounted type)
Depth	373mm
Height	44mm (1U)
Weight	9Kg
Communication Interface	RS485/RS232

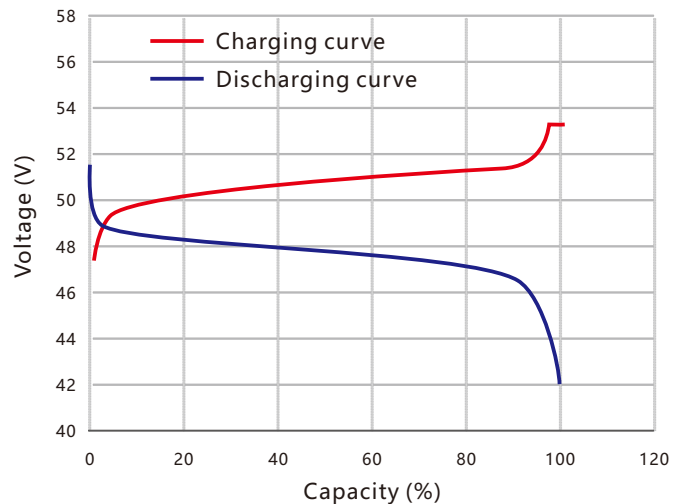
Operating Conditions

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

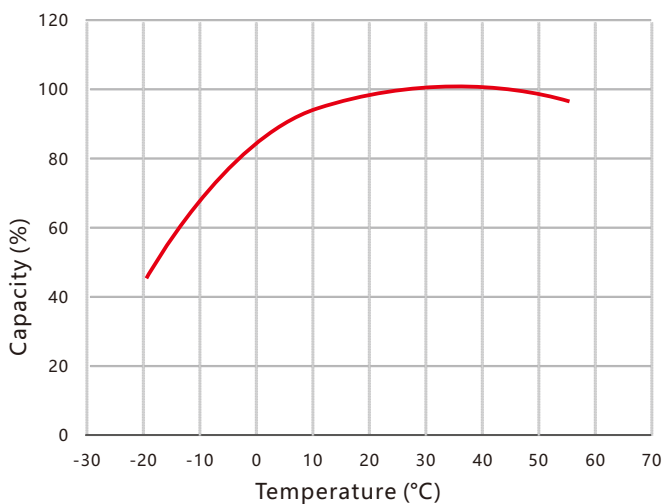
Rating Performance @25°C



Discharge and Charge @25°C, 0.2C



Capacity under different Temp.



Cycle Life under different Temp.

