


TRLiF-4850M (48V50Ah)

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



Nominal Characteristics

Nominal Voltage	48V
Nominal Capacity (@0.2C)	50Ah (15S9P)
Nominal Energy	2400Wh
Internal Resistance	80mΩ
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	50A

Discharging Specifications

Discharging Cut-off Voltage	42V
Max. Discharging Continuous Current	50A
Max. Discharging Peak Current	55A, <3S

TRLiF-4850M (48V50Ah)

Rechargeable Li-ion Battery-Industrial Battery-LFP Series



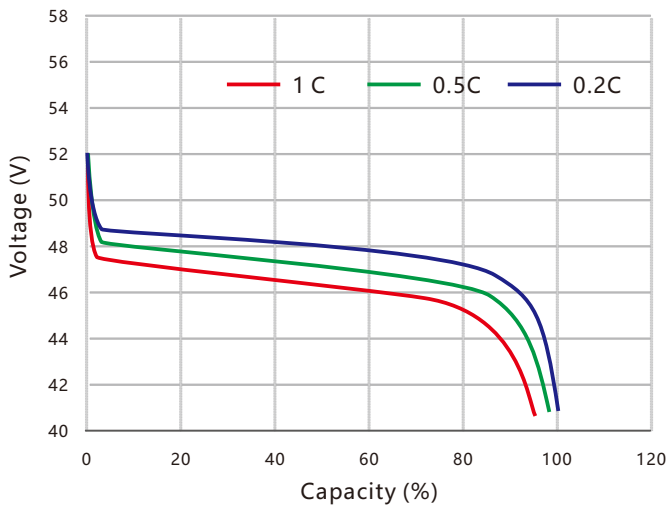
Mechanical Characteristics

Width	483mm (19" Rack mounted type)
Depth	400mm
Height	133mm (3U)
Weight	30.3Kg
Communication Interface	RS485/RS232

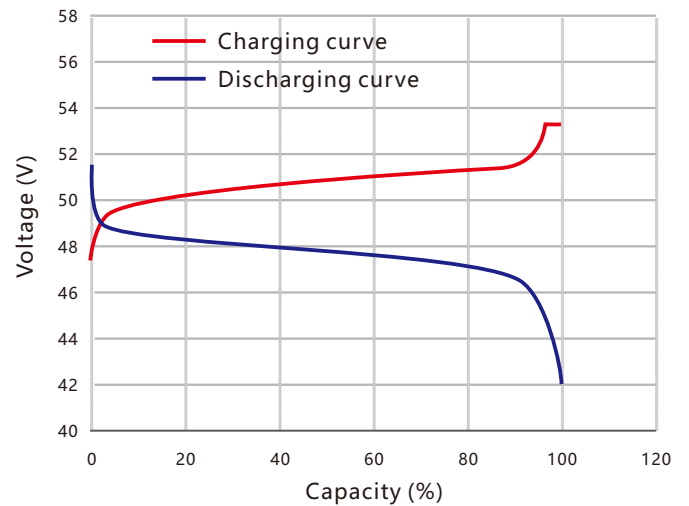
Operating Conditions

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

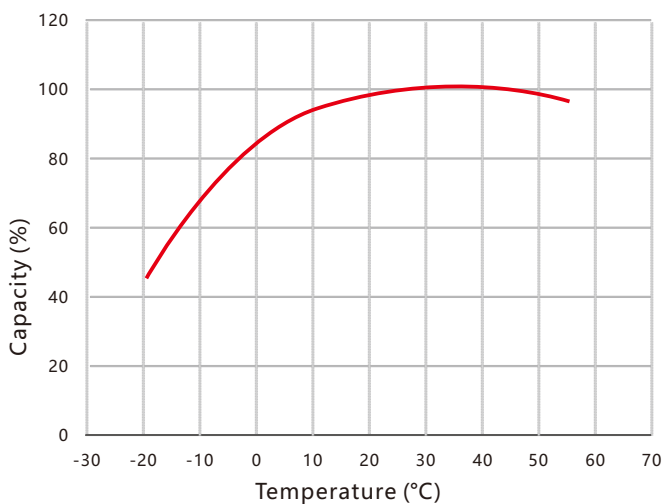
Rating Performance @25°C



Discharge and Charge @25°C, 0.2C



Capacity under different Temp.



Cycle Life under different Temp.

