


TRLiF-4872M (48V72Ah)

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	51.2V
Nominal Capacity (@0.2C)	72Ah (16S12P)
Nominal Energy	3686.4Wh
Internal Resistance	65mΩ
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	56V~57.6V
Max. Charging Current	50A

Discharging Specifications

Discharging Cut-off Voltage	44.8V
Max. Discharging Continuous Current	50A
Max. Discharging Peak Current	55A, <3S

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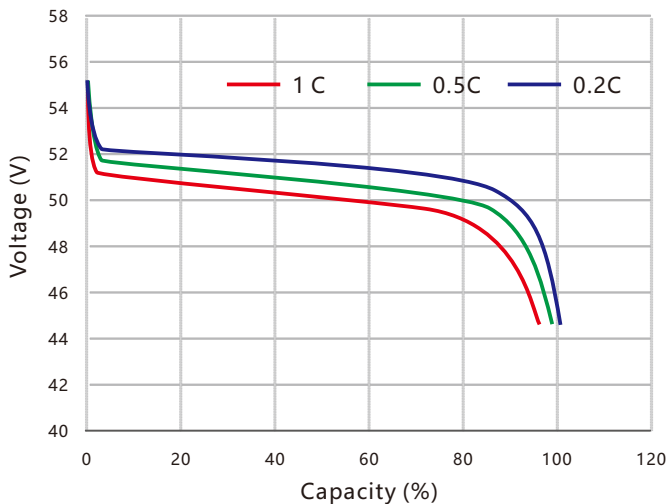
Mechanical Characteristics

Width	483mm (19" Rack mounted type)
Depth	385mm
Height	176mm (4U)
Weight	39.6Kg
Communication Interface	RS485/RS232

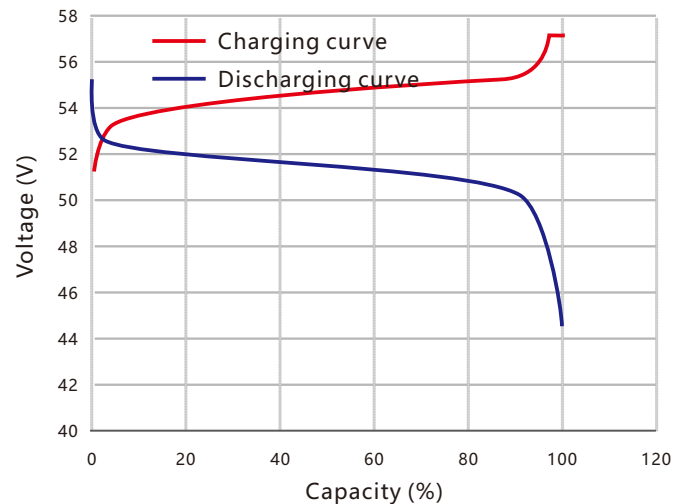
Operating Conditions

Charge Temperature	0°C~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	UL 1642 at cell level
Water Dust Resistance	IP30

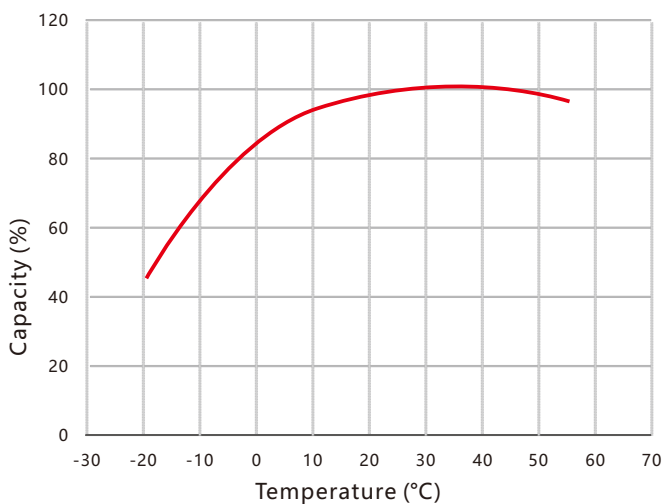
Rating Performance @25°C



Discharge and Charge @25°C, 0.2C



Capacity under different Temp.



Cycle Life under different Temp.

