


# TRLiF-4824M (48V24Ah)

Rechargeable Li-ion Battery-Industrial Battery-LFP Series



## Product Features

-  **Cylindrical LFePO<sub>4</sub> 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)	24Ah (15S4P)
Nominal Energy	1152Wh
Internal Resistance	110mΩ
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	10A

## Discharging Specifications

Discharging Cut-off Voltage	42V
Max. Discharging Continuous Current	20A
Max. Discharging Peak Current	22A, <3S

# TRLiF-4824M (48V24Ah)

Rechargeable Li-ion Battery-Industrial Battery-LFP Series



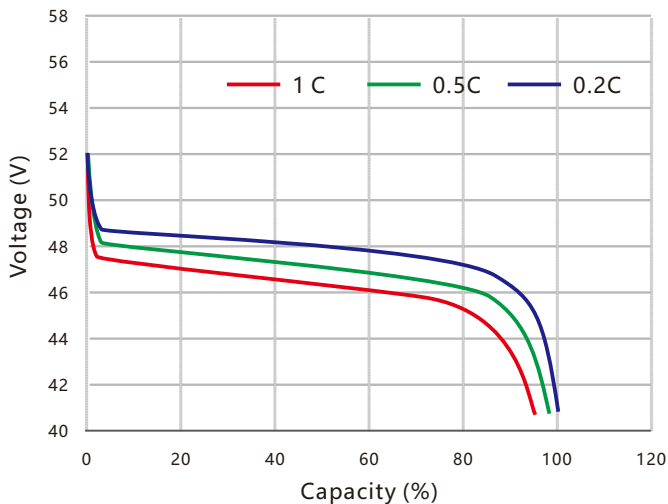
## Mechanical Characteristics

Width	483mm (19" Rack mounted type)
Depth	365mm
Height	88mm (2U)
Weight	16.2Kg
Communication Interface	RS485/RS232

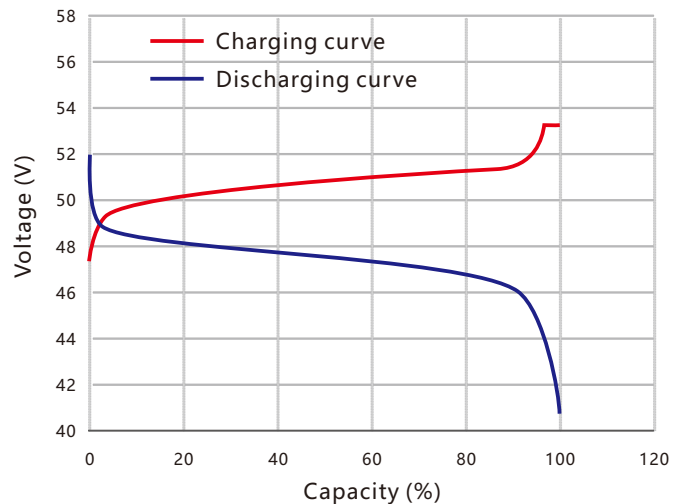
## Operating Conditions

Charge Temperature	0°C~45°C (32°F~113°F)
Discharge Temperature	-20°C~60°C (-4°F~40°F)
Storage Temperature	0°C~45°C(32°F~113°F)
Safety Standard	UL 1642 at cell level
Water Dust Resistance	IP30

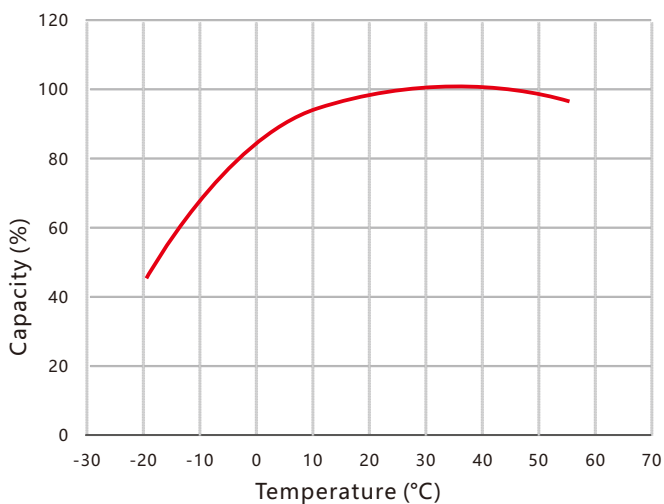
### Rating Performance @25°C



### Discharge and Charge @25°C, 0.2C



### Capacity under different Temp.



### Cycle Life under different Temp.

