

◆ TT-RCK-48V-100Ah



TommaTech Rack Series Lithium Battery solutions based on reliable Lithium Iron Phosphate cells with 51.2V are designed for modular battery-racks. TommaTech Rack Series Lithium Batteries with deep-cycle discharge rates provide great performance in long-term energy storage solutions. TommaTech Rack Series Lithium Battery solutions, which can be utilized in a broad scope of projects such as residential energy solutions, independent energy storage solutions, UPS systems or power stations are offered to users with many unique features.



High Performance

Great performance based on the latest generation of LiFePO₄ technology



Expandable Capacity

Parallel Connection up to 16 Batteries



Smart Management System

The advanced built-in BMS technology ensures a safe operation



Temperature Resistant

Temperature sensor and heat resistant casing



Long Lifespan

Long lifespan up to 5000 cycles



IP65 Protection Class

IP65 compatible metal cabinet and connector components



Durable Metal Case

Aesthetic, compact and durable metal cabinet design

TommaTech Rack Series Lithium Batteries, which are made out of heat-resistant LFP cylindrical battery cells in a fireproof battery case, are equipped with temperature sensors for additional safety. Furthermore, the batteries, which were manufactured following our specially developed quality and security concept, are designed to feature a BMS (Battery Management System) with balancing function, pure copper conductors and reliably performing LFP battery cells.



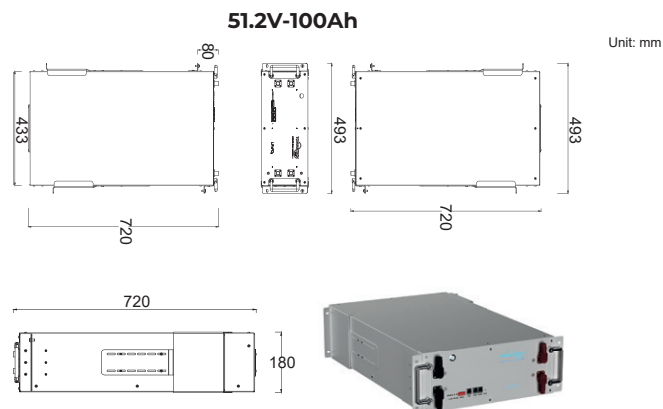
TommaTech Rack-Series LFP Lithium Batteries with advanced built-in BMS allow up to 16 units connected in parallel with no performance loss. This results in energy storage capacities of up to 80kWh in a single and functional system which is designed for standardized battery racks.



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS		TT-RCK-48V-100Ah
Nominal Voltage [V]		51.2
Nominal Capacity [Ah]		100
Nominal Energy [Wh]		5120
Recommended Charging Current [A]		30
Maximum Charging Current [A]		50
Recommended Charging Voltage [V]		56.8
Maximum Charging Voltage [V]		58.4
Recommended Discharge Current [A]		50
Maximum Discharge Current [A]		100
Discharge Cut-off Voltage [V]		44.8±0.2
CYCLE SPECIFICATIONS (at 25°C)		
100% D.O.D		2000 Cycles
50% D.O.D		3400 Cycles
30% D.O.D		4800 Cycles
SAFETY AND STANDARDS		
Overcharge Protection		Yes
Overdischarge Protection		Yes
Overcurrent Protection		Yes
Short Circuit Protection		Yes
Overtemperature Protection		Yes
Temperature Sensor		Yes
Adjustable Charge / Discharge Current		Yes
Grounding		Yes
Cell Type		LFP 32700 Cylindrical
Safety Standards		IEC 61960 / 62133-2
ENVIRONMENTAL CONDITIONS		
Charging Temperature [°C]		0 ~ +60
Discharge Temperature [°C]		-20 ~ +60
Storage Temperature [°C]		0 ~ +35
Humidity (Non-Condensing) [%]		Max. 95%
Protection Class		IP65
Design Life [Year]		>10
Warranty [Year]		5
ADDITIONAL INFORMATION		
Dimensions (WxDxH) [mm]		494x721x180
Weight [kg]		55.5±0.5
Battery Connector		IP67 Protected Positive (+) and Negative (-) Pole Connector
Serial Connection		No
Parallel Connection		Yes (Max. 16 pcs)
Communication		CAN / RS485
Casing Material		Metal

PHYSICAL CHARACTERISTICS



* TommaTech GmbH reserves the right to change the specification of product without prior notice.

* The charge, discharge, capacity and cycle values stated above are valid at 25 °C and non-condensing environment.

Ver.2303.15