

TOMMATECH LFP LITHIUM BATTERY



BTR-P-12.8V-102AH



BTR-P-25.6V-102AH



BTR-P-12.8V-204AH



BTR-P-25.6V-204AH



**LFP LITHIUM BATTERY
MODULAR 12.8V**

**LFP LITHIUM BATTERY
MODULAR 25.6V**

TommaTech new generation low voltage lithium batteries offer unique solutions for energy storage. With a long life of up to 8000 cycles, high energy density, high quality and performance, TommaTech lithium batteries stand out with their functional and eco-friendly structure.



High Performance

Great performance based on the latest generation of LiFePO₄ technology



Active Smart Management System

Effective usage structure with active balancing BMS technology



Long Lifespan

Long lifespan up to 8000 cycles



Innovative Design and Heat Resistant Case

Aesthetic, compact and durable metal cabinet design



Expandable Capacity

Parallel Connection up to 16 Batteries



Communication

CAN / RS485 / Bluetooth
(for 25.6V batteries)



IP20- IP65 Protection Class

IP20 - IP65 compatible metal cabinet and connector components



Sustainable Energy

An eco-friendly and sustainable energy source thanks to its ability to charge from solar panels

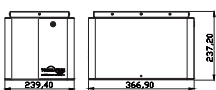
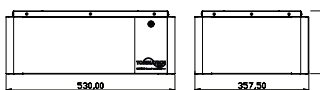
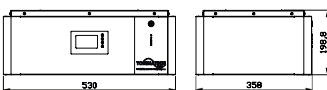
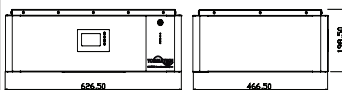
TommaTech Lithium Batteries are designed with heat-resistant and high performance LiFePO₄ battery technology. At the same time, lithium batteries equipped with temperature sensors are presented to users with a durable metal case. BMS (Battery Management System) with balancing function is used in TommaTech Lithium Batteries designed with the concept of safety and quality. Batteries with Al-Cu alloy conductive busbars allow parallel connection without loss of performance.



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	BTR-P-12.8V-102Ah	BTR-P-12.8V-204Ah	BTR-P-25.6V-102Ah	BTR-P-25.6V-204Ah
Nominal Voltage [V]	12.8	12.8	25.6	25.6
Nominal Capacity [Ah]	102	204	102	204
Nominal Energy [Wh]	1305.6 ¹	2611.2 ¹	2611.2 ¹	5222.4 ¹
Recommended Charging Current [A]	50 ^{2,3}	80 ^{2,3}	50 ^{2,3}	100 ^{2,3}
Maximum Charge Current [A]	75 ^{2,3}	100 ^{2,3}	75 ^{2,3}	150 ^{2,3}
Recommended Charging Voltage [V]	14.2	14.2	28.4	28.4
Maximum Charge Voltage [V]	14.6	14.6	29.2	29.2
Recommended Discharge Current [A]	50 ^{2,3}	80 ^{2,3}	50 ^{2,3}	100 ^{2,3}
Maximum Discharge Current [A]	75 ^{2,3}	100 ^{2,3}	75 ^{2,3}	150 ^{2,3}
Discharge Cut-off Voltage [V]	11.1±0.2	11.1±0.2	22.4±0.2	22.4±0.2
BATTERY/CELL				
Cycle Life	8000 ^{2,3,4,5,6}			
Mass Energy Density [Wh/Kg]	165			
Volumetric Energy Density [Wh/L]	350			
Internal Resistance [mΩ]	0.27-0.40 ⁷			
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			
Cell Type	LFP Prismatic			
Safety Standards	IEC 61960 / 62133-2 / RoHS			
ENVIRONMENTAL CONDITIONS				
Charging Temperature [°C]	0 ~ +60			
Discharge Temperature [°C]	-20 ~ +60			
Storage Temperature [°C]	0 ~ +35			
Humidity (Non-Condensing) [%]	Max. 85%			
Protection Class	IP20-IP65			
Design Life [Year]	>15			
Warranty [Year]	5			
ADDITIONAL INFORMATION				
Dimensions (WxDxH) [mm]	239.4x366.9x237.2	530x357.5x197	530x358x198.8	466.5x626.5x198.5
Weight [kg]	16.50±0.2	27.75±0.2	27.75±0.2	47.70±0.2
Battery Connector	IP67 Protected Positive (+) and Negative (-) Pole Connector			
Serial Connection	No			
Parallel Connection	Yes (Max. 16 pcs)			
Communication	Not Available		CAN / RS485 / Bluetooth	
Display	Not Available		LCD	
Casing Material	Metal Case			

PHYSICAL CHARACTERISTICS

BTR-P-12.8V-102Ah	BTR-P-12.8V-204Ah	BTR-P-25.6V-102Ah	BTR-P-25.6V-204Ah
			
Unit:mm			

¹⁾ Usable Energy

²⁾ 0.5C

³⁾ 25°C ± 2°

⁴⁾ 50% SOC (State Of Charge)

⁵⁾ 75% D.O.D (Depth Of Discharge)

⁶⁾ 80% EOL (End Of Life)

⁷⁾ 17% ± 3% SOC (State Of Charge)

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

**For modular lithium battery, the base accessory is available separately upon request.