TOMMATECH V SERIES LFP LITHIUM BATTERY









TommaTech offers unique solutions in energy storage with its new generation low voltage lithium batteries. With a long lifespan of up to 8000 cycles, TommaTech Lithium Batteries stand out with their high energy density, superior quality, and performance, as well as their functional and environmentally friendly design.



High Performance

with Next Generation LiFePO4 Battery Technology for Superior Performance



Active Smart Management System

with effective usage structure through BMS technology with active balancing features.



Long Lifespan

up to 8000 cycles.



Innovative Design and Heat Resistant Structure

Aesthetic, compact, and durable metal case design

TommaTech Lithium Batteries are uniquely designed with a heat-resistant and high-performance LiFePO4 battery architecture. Additionally, these lithium batteries are equipped with temperature sensors and presented to users in a durable metal casing. Designed with a focus on safety and quality, TommaTech Lithium Batteries utilize a BMS (Battery Management System) with balancing features. The batteries, which feature AI-Cu alloy conductor busbars, allow for up to 16 parallel connections without performance loss. This enables a single system to achieve an energy storage capacity of up to 80 kWh.



Expandable Capacity

up to 16 parallel battery connections.



Communication

CAN / RS485 / Bluetooth



IP20-IP65 Protection Class

IP20-IP65 compatible metal enclosure and terminal components



Sustainable Energy

is an eco-friendly and sustainable energy source thanks to the ability to be charged by solar panels.



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TECHNICAL SPECIFICATIONS

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STRESS - CAPACITY	BTR-P-51.2V-280Ah
Nominal Voltage [V]	51.2
Nominal Capacity [Ah]	280
Nominal Energy [Wh]	14336 ¹
Recommended Charging Current [A]	100 ^{2,3}
Maximum Charge Current [A]	140 ^{2,3}
Recommended Charging Voltage [V]	56.8
Maximum Charging Voltage [V]	58.4
Recommended Discharge Current [A]	100 ^{2,3}
Maximum Discharge Current [A]	140 ^{2,3}
Discharge Cut-off Voltage [V]	44.8±0.2
BATTERY / CELL	
Number of Cycles	8000 234,5,6
Mass Energy Density [Wh / Kg]	165
Volumetric Energy Density [Wh / L]	350
Internal Resistance [mΩ]	<15 7
STANDARD	
Overcharge Protection	Yes
Overdischarge Protection	Yes
Overcurrent Protection	Yes
Short Circuit Protection	Yes
Excessive Temperature Protection	Yes
Temperature Sensor	Yes
Adjustable Charge / Discharge Current	Yes
Battery Chemistry	LFP Prismatic
Security	IEC 61960 / 62133-2 / RoHS
Working Conditions	
Charge Temperature [°C]	0 ~ +60
Discharge Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ + 35
Humidity (Without Condensation)	Maximum %85
Protection Class	IP20-IP65
Planned Product Lifespan [Year]	>15
Warranty Period [Year]	5
OTHER	
Dimensions (WxDxH) [mm]	450x250x990
Weight (Kg)	119±0.5
Battery Connection	IP67 Protected Plus (+) and Minus (-) Connector Cap
Serial Connection	No
Parallel Connection	Yes (Maximum 16 pieces)
Communication	CAN / RS485 / Bluetooth
Screen	LCD
External Cabin	Metal Case
DUVICAL PROPERTIES	

PHYSICAL PROPERTIES



- 1) Usable Energy
 2) 0.5C
 3) 25°C ± 2°
 4) 50% SOC (State Of Charge)
 5) 75% D.O.D (Depth Of Disharge)
 6) 80% EOL (End Of Life)
 7) 17% ± 3% SOC
 *TommaTech GmbH reserves the right to change product specifications without prior notice.
 **For the modular lithium battery, the bottom base accessory is available separately upon request.

