



## Motor Battery

**76.8V-30AH / 76.8V-42AH**  
**76.8V-52AH / 76.8V-100AH**  
**76.8V-280AH / 64V-30AH**

*Easy. Safe. Efficient.*



Anti-Roll  
Function



Heating  
Function



Smart Battery  
Management System



4G  
Module

**BTR-MV-76.8V-30AH / BTR-MV-76.8V-42AH**  
**BTR-MV-76.8V-52AH / BTR-MV-76.8V-100AH**  
**BTR-MV-76.8V-280AH / BTR-MV-64V-30AH**



TommaTech LiFePO<sub>4</sub> batteries ensure safety during charging with the Anti-Roll Function and deliver optimal charging performance even at low temperatures down to -20 °C thanks to the optional heating feature. With an IP65 protection rating, they are durable in all weather conditions. The real-time SoC display enables safe operation. With a 4,000+ cycle life, constant power output, and a smart BMS system, they offer long service life and high performance. The 4G module allows location tracking and remote monitoring of battery status. All these features are backed by a 5-year warranty.

	BTR-MV- 76.8V-30AH	BTR-MV- 76.8V-42AH	BTR-MV- 76.8V-52AH	BTR-MV- 76.8V-100AH	BTR-MV- 76.8V-280AH	BTR-MV- 64V-30AH
<b>VOLTAGE – CAPACITY</b>						
Nominal Voltage [V]	76.8	76.8	76.8	76.8	76.8	64
Nominal Capacity [Ah]	30	42	52	100	280	30
Nominal Energy [Wh]	2304	3225	3840	7680	21504	1920
Recommended Charge Current [A]	15	21	25	50	100	15
Maximum Charge Current [A]	30	35	40	75	140	30
Recommended Charge Voltage [V]	85.2	85.2	85.2	85.2	85.2	85.2
Maximum Charge Voltage [V]	86.4	86.4	86.4	86.4	86.4	86.4
Recommended Discharge Current [A]	15	21	25	50	140	15
Maximum Discharge Current [A]	30	42	52	100	200	30
Discharge Cut-off Voltage [V]			67.5±0.2			56.5±0.2
<b>BATTERY / CELL</b>						
Cycle Life				4000		
Gravimetric Energy Density [Wh/kg]				165		
Volumetric Energy Density [Wh/L]				350		
Internal Resistance [mΩ]				0.27–0.40		
<b>STANDARD</b>						
Overcharge Protection				Yes		
Overdischarge Protection				Yes		
Overcurrent Protection				Yes		
Short Circuit Protection				Yes		
Overtemperature Protection				Yes		
Temperature Sensor				Yes		
Adjustable Charge / Discharge Current				Yes		
Battery Chemistry				LFP Prismatic		
Safety				IEC 61960 / 62133-2 / RoHS		
<b>OPERATING CONDITIONS</b>						
Charge Temperature [°C]				0 ~ +60		
Discharge Temperature [°C]				-20 ~ +60		
Storage Temperature [°C]				0 ~ +35		
Humidity (Non-condensing)				Maximum 85%		
Protection Class				IP65		
Planned Product Lifetime [Years]				8		
Warranty Period [Years]				3		
Dimensions (WxDxH) [mm]	252x311x168	300x178x380	348x345x182	470x520x202,50	651x802x360	420x520x202,50
Weight [kg]	22	24	26	28	30	27
Series Connection				No		
Parallel Connection				No		
Communication				CAN / RS485 / Bluetooth		
Display				LCD		
Outer Enclosure				Metal Enclosure		

\* The data and technical specifications stated in this document are provided for preliminary information purposes and may vary depending on the product usage, system design, and environmental conditions.