



Forklift Battery

51.2V-304Ah/ 51.2V-420Ah/ 51.2V-608Ah
83.2V-304Ah/ 83.2V-420Ah/ 83.2V-608Ah

Easy. Safe. Efficient



Anti-Walk
Function



Heating
Function



Smart Battery
Management System



4G
Module



BTR-MV-51.2V-304Ah/ BTR-MV-51.2V-420Ah/ BTR-MV-51.2V-608Ah
BTR-MV-83.2V-304Ah/ BTR-MV-83.2V-420Ah/ BTR-MV-83.2V-608Ah

TommaTech LiFePO4 batteries ensure safety during charging with the Anti-Walk Function, while the optional heating feature provides optimal charging performance even at low temperatures down to -20 °C. With IP65 protection, they are durable under all weather conditions. The real-time SoC indicator allows safe operation. Offering over 4,000 cycles, constant power output, and a smart BMS system, they are long-lasting and high-performing. With the 4G module, location and battery status can be monitored remotely. All these features are backed by a 5-year warranty.

Voltage - Capacity

	BTR-MV-51.2V-304Ah	BTR-MV-51.2V-420Ah	BTR-MV-51.2V-608Ah	BTR-MV-83.2V-304Ah	BTR-MV-83.2V-420Ah	BTR-MV-83.2V-608Ah
Nominal Voltage [V]	51,2	51,2	51,2	83,2	83,2	83,2
Nominal Capacity [Ah]	304	420	608	304	420	608
Nominal Energy [Wh]	15564	21504	31129	25292	34944	50585
Recommended Charging Current [A]	150	150	150	150	150	150
Maximum Charging Current [A]	200	200	200	200	200	250
Recommended Charging Voltage [V]	56,8	56,8	56,8	92,3	92,3	92,3
Maximum Charging Voltage [V]	58,4	58,4	58,4	94,9	94,9	94,9
Recommended Discharge Current [A]	150	150	150	150	150	150
Continuous Discharge Current [A]	200	200	200	200	200	200
Maximum Discharge Current [A]	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s	250A for 60s, 450A for 30s
Discharge Cut-off Voltage [V]	44,8±0.2	44,8±0.2	44,8±0.2	72,8±0.2	72,8±0.2	44,8±0.2

Battery / Cell

Cycle Life	4000
Gravimetric Energy Density [Wh/Kg]	165
Volumetric Energy Density [Wh/L]	350
Internal Resistance [mΩ]	0.27-0.40

Standard

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 / TS EN 61427-1

Operating Conditions

Charging Temperature [°C]	0 ~ +60
Discharging Temperature [°C]	-20 ~ +60
Storage Temperature [°C]	0 ~ +35
Humidity (Non-condensing)	Maximum 85%
Protection Class	IP65
Planned Product Lifetime [Years]	>10
Warranty Period [Years]	5

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