

Lithium-Ion Battery

Customized Battery-LFP 48V



ATOMBOTIX

Extreme Temperature Resilience



Operates flawlessly in -20°C to 60°C environments, ideal for harsh conditions like cold storage facilities or high-temperature industrial settings

Modular Flexibility, Cost-Efficient Scalability



Scale capacity freely by adding/removing modules; replace single modules without system downtime. Global supply chain enables rapid customization at low maintenance costs

Ultra-Long Cycle Life, Built to Last



Engineered specifically for AGVs, with a cycle life 4x longer than lead-acid batteries. Slow capacity degradation minimizes replacement needs, ensuring reliable long-term performance

High-Efficiency Fast Charging



90-98% round-trip efficiency (vs. 70-85% for lead-acid), supports rapid charging with minimal performance loss, maximizing operational uptime

Safety & Eco-Friendliness, Guaranteed



LFP (Lithium Iron Phosphate) chemistry delivers high thermal stability to reduce fire risks, while non-toxic materials meet stringent environmental standards

High Energy Density, Lower Total Cost



50%+ space and weight savings vs. traditional batteries for easy deployment. Combined with long lifespan, low maintenance, and modular upgrades, total ownership costs drop by 30%+

Type	AB-BT-LFP-48V-9AH	AB-BT-LFP-48V-12AH	AB-BT-LFP-48V-20AH	AB-BT-LFP-48V-30AH	AB-BT-LFP-48V-30AH-Split	AB-BT-LFP-48V-30AH-Paralled	AB-BT-LFP-48V-40AH
Nominal Voltage	48 V						
Charing Operating Temperature	0°C - 55°C						
Discharing Operating Temperature	-20°C - 60°C						
Communication	RS485-ASCII/MODBUS						
Cell Material	Lithium Iron Phosphate						
Cycle Life	>2000 cycles						
Full Charging(FC) Voltage	54 V	57.6 V	54 V	54 V	54 V	54 V	54 V
Nominal Capacity	9 AH	12 AH	20 AH	30 AH	30 AH	30 AH	40 AH
Max. Charging Current	10:00 AM	24 A	20 A	30 A	30 A	30 A	40 A
Discharge Cut-off Voltage (FD)	37.5 V	40 V	37.5 V	37.5 V	37.5 V	37.5 V	37.5 V
Maximum. Discharge Current	10:00 AM	24 A	40 A	30 A	30 A	30 A	40 A
Dimensions	200 × 150 × 80 mm	190 × 148 × 140 mm	295 × 99.5 × 220 mm	255 × 170 × 180 mm	200 × 155 × 130 mm	300 × 235 × 135 mm	310 × 250 × 137 mm
Net Weight	3 kg	8 kg	9 kg	12.5 kg	13 kg	13 kg	15 kg

Type	AB-BT-LFP-48V-54AH	AB-BT-LFP-48V-72AH	AB-BT-LFP-48V-100AH	AB-BT-LFP-48V-173AH	AB-BT-LFP-48V-300AH	AB-BT-LFP-48V-412AH
Nominal Voltage	48 V					
Charing Operating Temperature	0°C - 55°C					
Discharing Operating Temperature	-20°C - 60°C					
Communication	RS485-ASCII/MODBUS					
Cell Material	Lithium Iron Phosphate					
Cycle Life	>2000 cycles					
Full Charging(FC) Voltage	54 V	57.6 V	54 V	57.6 V	54 V	57.6 V
Nominal Capacity	54 AH	72 AH	100 AH	173 AH	300 AH	412 AH
Max. Charging Current	50 A	50 A	100 A	100 A	200 A	200 A
Discharge Cut-off Voltage (FD)	37.5 V	44.8 V	37.5 V	40 V	37.5 V	40 V
Maximum. Discharge Current	50 A	50 A	100 A	100 A	200 A	300 A
Dimensions	400 × 260 × 145 mm	430 × 235 × 230 mm	380 × 33 × 220 mm	680 × 300 × 240 mm	900 × 360 × 260 mm	850 × 550 × 275 mm
Net Weight	21.5 kg	32.5 kg	40 kg	65 kg	105 kg	200 kg

