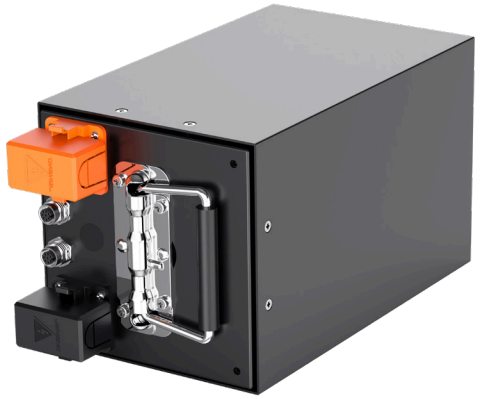
Lithium-Ion Battery

Customized Battery-LFP 24V

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-24V-24AH	AB-BT-LFP-24V-30AH	AB-BT-LFP-24V-50AH	AB-BT-LFP-24V-60AH	AB-BT-LFP-24V-100AH	AB-BT-LFP-24V-210AH
Nominal Voltage	24 V					
Charing Operating Temperature	0℃ - 55℃					
Discharing Operating Temperature	-20℃ - 60℃					
Communication	RS485-ASCII/MODBUS					
Cell Material	Lithium Iron Phosphate					
Full Charging(FC) Voltage	28.8 V					
Cycle Life	2000 cycles					
Nominal Capacity	21 AH	30 AH	50 AH	60 AH	100 AH	210 AH
Max. Charging Current	21 A	30 A	50 A	60 A	100 A	210 A
Discharge Cut-off Voltage (FD)	20 V	22.4 V	22.4 V	22.4 V	20 V	20 V
Maximum. Discharge Current	21 A	30 A	50 A	50 A	100 A	200 A
Dimensions	230 × 168 × 85 mm	290 × 200 × 85 mm	323 × 243 × 123 mm	321 × 225 × 176 mm	365 × 240 × 215 mm	510 × 190 × 370 mm
Net Weight	7 kg	8 kg	11.5 kg	13.5 kg	21 kg	45 kg