

# Lithium-Ion Battery

## Customized Battery-LFP 24V



# ATOMBOTIX

### LONGER LIFESPAN



- Cycle Life: ATOMBOTIX's AGV specifically designed Lithium-Ion batteries typically offer a higher cycle life, often exceeding 4X cycles for lead-acid batteries.
- Durability: They maintain their capacity over time, reducing the need for frequent replacements.

### ENHANCED SAFETY



- Thermal Stability: LFP chemistry is inherently more stable, reducing the risk of thermal runaway and fires.
- Non-Toxic Materials: It uses safer, non-toxic materials, making it more environmentally friendly.

### WIDE OPERATING TEMPERATURE RANGE



- Temperature Tolerance: LFP batteries perform well in a broader temperature range (-20°C to 60°C), making them ideal for diverse environments.

### SCALABILITY AND MODULARITY



- Modular Design: The modularity allows for flexible capacity scaling by adding or removing modules to suit specific energy requirements.
- Minimum Maintenance: Close to none requirement for maintenance, Damaged or underperforming modules can be replaced without affecting the entire system.

### HIGH ENERGY EFFICIENCY



- Charging Efficiency: They boast higher round-trip efficiency (90–98%) compared to lead-acid (70–85%);
- Fast Charging: LFP batteries support faster charging without significant performance degradation.

### LIGHTWEIGHT AND COMPACT



- High Energy Density: With high energy density, ATOMBOTIX's AGV battery saves most of the space and weight compared to traditional batteries, making them easier to install and transport.

### COST-EFFECTIVENESS



- Fast & cost effective customization: Modular design, global supply chain, enables fast and inexpensive pack design & manufacturing.
- Lower Total Cost of Ownership: Low upfront cost, plus the extended lifespan, reduced maintenance, and higher efficiency of LFP batteries lead to a lower overall cost of ownership.

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	24V					
Full Charging(FC) Voltage	28.8V					
Operating Temperature	0°C~55°C					
Operating Temperature	-20°C~60°C					
Communication	RS485-ASCII/MODBUS					
Cell material	Lithium Iron Phosphate					
Cycle Life	2000 cycles					
Nominal Capacity	21AH	30AH	50AH	60AH	100AH	210AH
Max Charging Current	21A	30A	50A	60A	100A	210A
Discharge cut-off voltage (FD)	20V	22.4V	22.4V	22.4V	20V	20V
Maximum Discharge Current	21A	30A	50A	50A	100A	200A
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
Weight	7kg	8kg	11.5kg	13.5kg	21kg	45kg

