

Lithium-Ion Battery

Low-temp Customized battery (LFP/LTO)



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



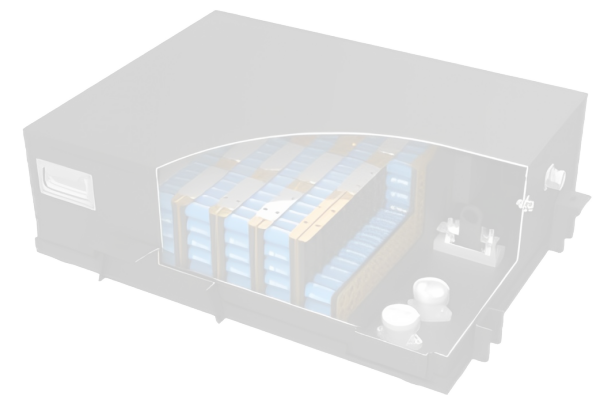
- High Energy Density: With high energy density, ATOMBOTIX's AGV battery saves most of the space and weight compared to traditional batteries, making them easier to install and transport.

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-LTO-24V-10AH-LT	AB-BT-LTO-24V-60AH-LT	AB-BT-LTO-48V-10AH-LT
Operating Temperature	-30°C~55°C		
Operating Temperature	-30°C~60°C		
Communication	RS485-ASCII/MODBUS		
Cell material	Lithium Iron Phosphate(LFP)		
Cycle Life	2000 cycles		
Nominal Voltage	24V	24V	48V
Full Charging(FC) Voltage	28V	28.8V	56V
Nominal Capacity	10AH	60AH	10AH
Max Charging Current	40A	50A	40A
Discharge cut-off voltage (FD)	17V	16V	34V
Maximum Discharge Current	10A	50A	10A
Dimensions	225×100×170 mm	330×320×125 mm	260×140×170 mm
Weight	4kg	18kg	8kg



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