

# Lithium-Ion Battery

Low-temp Customized battery

**ATOMBOTIX**



## Extreme Temperature Resilience (-20°C - 60°C)



Stable operation in freezing cold storage or high-temperature industrial environments, ensuring reliability across diverse scenarios

## Modular Scalability & Cost Efficiency



Flexible capacity scaling via plug-and-play modules; single-module replacement eliminates downtime. Combined with a global supply chain, this enables rapid customization and 30%+ lower TCO through reduced maintenance and extended lifespan

## High Efficiency & Fast Charging



90-98% round-trip efficiency (vs. 70-85% lead-acid) minimizes energy loss; supports fast charging without performance degradation

## Lightweight & Space-Saving Design



50%+ weight/space reduction vs. traditional batteries, enabled by high energy density for effortless installation and transportation

## Ultra-Long Cycle Life & Slow Degradation



AGV-specific lithium batteries deliver 4x more cycles than lead-acid, with minimal capacity decay for sustained high performance

## Safety & Eco-Friendly



LFP chemistry ensures thermal stability (low fire risk) and uses non-toxic materials, meeting strict environmental compliance

Type	AB-BT-LTO-24V-10AH-LT	AB-BT-LTO-24V-60AH-LT	AB-BT-LTO-48V-10AH-LT
Nominal Voltage	24 V	24 V	48 V
Charing Operating Temperature	-30°C - 55°C		
Discharging Operating Temperature	-30°C - 60°C		-30°C - 55°C
Communication	RS485-ASCII/MODBUS		
Cell Material	Lithium Iron Phosphate(LFP)		
Cycle Life	2000 cycles		
Full Charging(FC) Voltage	28 V	28.8 V	56 V
Nominal Capacity	10 AH	60 AH	10 AH
Max. Charging Current	40 A	50 A	40 A
Discharge Cut-off Voltage (FD)	17 V	16 V	34 V
Maximum. Discharge Current	10:00 AM	50 A	10:00 AM
Dimensions	225 × 100 × 170 mm	330 × 320 × 125 mm	260 × 140 × 170 mm
Net Weight	4 kg	18 kg	8 kg

