

MODULAR LITHIUM-LON BATTERY

AB-BT-LFP-24V-45AH-MOD

ATOMBOTIX



Ultra-High Power & Rapid



High discharge rate meets peak power demands; fast charging/discharging capability with LFP chemistry ensures no performance loss, even under frequent cycles

Modular Flexibility & Space Efficiency



Customizable series/parallel configurations adapt to diverse power needs; compact design maximizes space utilization while supporting scalable upgrades

Safety & Eco-Certified Reliability



Stable LFP chemistry minimizes thermal runaway and fire risks; non-toxic materials comply with global environmental standards, including shipping insurance for seamless logistics

Energy-Saving & Cost-Effective Operation



90-98% round-trip efficiency (vs. 70-85% lead-acid) reduces energy waste; fast customization via global supply chain lowers upfront and operational costs

Longevity with Minimal Maintenance



2000+ cycles and 70%+ capacity retention over lifespan; modular design enables single-module replacement without downtime, slashing maintenance costs

Lower Total Cost of Ownership



30%+ lifetime cost reduction through long lifespan, low maintenance, and high efficiency; compliant with international certifications for risk-free deployment

Model	AB-BT-LFP-24V-45AH-MOD
Electrical Parameters	
Full Charging (FC) Voltage	29.2 V
Charging Cut-off Current	2.25 A
Standard Charging Current	22.5 A
Max. Charging Current	40 A
Discharge Cut-off voltage (FD)	20.8 ± 0.8 V
Standard Discharging Current	22.5 A
Max. Continuous Discharge Current	40 A
Max. Discharge Current (<5s)	50 A
Essential Parameters	
Nominal Voltage	24 V
Nominal Capacity	45 Ah
Rated Capacity	≥90%
Cycle Life	2000 cycles ≥70%
Cell Material	Lithium Iron Phosphate
Max. Units in Parallel Connection	5
Max. Units in Serial Connection	2
Certification	UL / CE / FCC / EN13849 / UN38.3
Communication	CANopen
Environmental Parameters	
Charge Temperature	0 - 45°C
Discharge Temperature	-20 - 60°C
Storage Temperature	-20 - 25°C
Humidity	60 ± 25% RH
Physical Parameters	
Dimensions	310 × 272 × 162 mm
Net Weight	13.3 kg

