

MODULAR LITHIUM-LON BATTERY

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

ATOMBOTIX



Ultra-High Power & Rapid



High discharge rate meets peak power demands; fast charging/discharge 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-48V-23AH-MOD
Electrical parameters	
Full Charging(FC) Voltage	58.4 V
Charging Cut-off Current	1.15 A
Standard Charging Current	11.5 A
Max. Charging Current	23 A
Discharge Cut-off Voltage (FD)	40 ± 2 V
Standard Discharging Current	11.5 A
Max. Continuous Discharge Current	20 A
Max. Discharge Current (<5s)	30 A
Essential Parameters	
Nominal Voltage	48 V
Nominal Capacity	23 Ah
Rated Capacity	≥90%
Cycle Life	2000 cycles ≥80%
Cell Material	Lithium Iron Phosphate(LFP)
Max. Units in Parallel Connection	5
Max. Units in Serial Connection	2
Certification	UL/CE/FCC/EN13849/UN 38.3
Communication	CANopen
Environmental parameters	
Charge Temperature	0 - 45°C
Discharge Temperature	-20 - 60°C
Storage Temperature	-20 - 25°C
Humidity Range	60 ± 25% RH
Physical parameters	
Dimensions	382 × 222 × 102 mm
Net Weight	13.5 kg

