

LITHIUM IRON PHOSPHATE BATTERY

MEET THE AZBAT48100C

LiFePO4 cells have revolutionized the potential and lifecycle cost of operating battery-based power systems. Ideally suited for use in energy storage systems.

INFO@AZOTEQ.COM



Model	AZBAT48100C
Battery type	Lithium Iron Phosphate (LiFePO4)
Nominal voltage	48V
Capacity	4.8kWh
Cycle life @ 80% DoD	5 000
Dimensions	482mm (W) x 410mm (L) x 177mm (H)
Weight	43kg±1kg
Warranty	5 years

*as per recommended charge and discharge parameters





- > 48V; 100Ah Lithium Iron Phosphate
- > Durable rack mount steel casing (4U, 19 inch)
- > Internal battery management system
- > Built-in protection and safety functions
- > Front panel state of charge display
- > RS485 and CAN BMS communication interface with leading inverters
- > Parallel Capability

GENERAL

Model	AZBAT48100C
Battery Type	LiFePO4
Nominal Voltage	48V
Nominal Capacity	100Ah / 4,8kWh
Cycle life @ 80% DoD*	5 000 cycles
Recommended DoD	80%
Operating Temperature	0°C to 45°C
Dimensions [mm]	482(W) x 410(L) x 177(H)
Weight	43kg
IP Rating	20
Storage conditions	-20°C to 60°C (less than 6 months)

CHARGE AND DISCHARGE

Charge voltage	54V
Float/Sustain Voltage	53V
Recommended Charge Current	30A (0.3C)
Maximum Charge Current	50A (0.5C)
Recommended Discharge Current	50A (0.5C)
Maximum Discharge Current	95A (0.95C)

BMS

Inverter Communication Interface	CAN and RS485
Monitoring Communication Interface	RS232 and RS485
Parallel	Up to 15 batteries
Protection	Short circuit Over temperature Over voltage Cell balancing Integrated circuit breaker

CERTIFICATION

Standards#	IEC 62619 UN 38.3
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* Estimated cycles @ 25°C @ standard charge and discharge of 80%. Refer to warranty conditions document.

