

# LITHIUM IRON PHOSPHATE BATTERY

## MEET THE AZBAT24100C

LiFePO<sub>4</sub> cells have revolutionized the potential and lifecycle cost of operating battery-based power systems. Ideally suited for use in energy storage systems.

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<b>Model</b>	AZBAT24100C
<b>Battery type</b>	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
<b>Nominal voltage</b>	25.6V
<b>Nominal Capacity</b>	2.56kWh
<b>Cycle life @ 80% DoD</b>	5 000
<b>Dimensions</b>	220mm (W) x 500mm (L) x 200mm (H)
<b>Weight</b>	30kg





- > 25.6V; 100Ah Lithium Iron Phosphate
- > Powder-coated Steel casing
- > Estimated State of charge and voltage display
- > Internal battery management system
- > Built-in protection
- > Lead acid battery replacement

**GENERAL**

<b>Model</b>	AZBAT24100C
<b>Battery Type</b>	LiFePO4
<b>Nominal Voltage</b>	25.6V
<b>Nominal Capacity</b>	2.56kWh   100Ah
<b>Cycle life @ 80% DoD*</b>	5 000 cycles (@ 0.3C; 25°C)
<b>Recommended DoD</b>	80%
<b>Operating Temperature</b>	0°C to 45°C
<b>Dimensions [mm]</b>	220(W) x 500(L) x 200(H)
<b>Weight</b>	30kg
<b>IP Rating</b>	20
<b>Storage conditions</b>	-20°C to 60°C (less than 6 months)

**CHARGE AND DISCHARGE**

<b>Charge voltage</b>	28.8V
<b>Float Voltage</b>	28.4V
<b>Standard Charge</b>	30A (0.3C)
<b>Standard Discharge</b>	50A (0.5C)
<b>Maximum Charge</b>	≤50A (0.5C)
<b>Maximum Discharge</b>	≤95A (0.95C)

**BMS**

<b>Protection</b>	Short circuit (automatic reset) Over voltage Over and under temperature Cell balancing
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**CERTIFICATION**

<b>Standards#</b>	IEC 62619 UN 38.3
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**IMPORTANT**

<b>Exposure</b>	Do not expose the LCD display to direct sunlight
<b>Charging temperature</b>	Suggested charging temperature 15-30°C
<b>Long term storage</b>	SOC ≈ 50%
<b>General</b>	Do not use in Series; Maximum of 4 in Parallel. Install protection as per applicable wiring codes and standards (i.e. a fuse)

\* Estimated cycles @ 25°C  
Refer to warranty conditions document.  
# Compliant to these standards, certification in progress