



ETERION  
Energy

# ETERION ENERGY Product Datasheet

## Battery LiFePO4: AU12100

### Precautions:

When the battery needs to be connected in parallel or in series each battery shall be fully charged according to the standard charging method before the connection.

Once the battery is fully discharged, it should be recharged promptly. Otherwise the BMS may malfunction due to low voltage, and the battery will be permanently damaged.

## Features

High Safety



Cost Efficiency



Drop in  
Replacement



Fast Charging



Longer Service  
Life



### NOMINAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100 AH
Energy Capacity	1280 Wh
Int Resistance	$\leq 50\text{m}\Omega$ @100%
Efficiency	SOC $\geq 99.5\%$
Max. Modules in Series	4

### CHARGE & DISCHARGE SPECIFICATIONS

Voltage Operation Range	10.8-14.6V
Max. Continuous Charge Current	50A
Max. Continuous Discharge Current	150A
Peak Discharge Current	450A
Recommended Charge Current / A	20A
Recommended Discharge Current / A	100A
Charge Current Cut-Off / A	0.3A

### BMS SPECIFICATIONS

Primary Charging Over- Current Protection	Current: $> 50.0 \pm 2.5\text{A}$ Delay Time: $15 \pm 2\text{s}$
Secondary Charging Over-Current Protection	Current: $> 60.0 \pm 2.5\text{A}$ Delay Time: $\leq 3\text{s}$
Primary Discharging Over- Current Protection	Current: $> 150.0 \pm 2.5\text{A}$ Delay Time: $15 \pm 2\text{s}$
Secondary Discharging Over- Current Protection	Current: $> 160.0 \pm 2.5\text{A}$ Delay Time: $\leq 3\text{s}$
Over-Charge Voltage Protection	Voltage: $> 14.8 \pm 0.2\text{V}$ Delay Time: $\leq 3\text{s}$
Over-Discharge Voltage Protection	Voltage: $< 10.0 \pm 0.3\text{V}$ Delay Time: $\leq 3\text{s}$
High Temperature Protection	Charging: $65 \pm 3^\circ\text{C}$ Recover: $60 \pm 3^\circ\text{C}$ Discharging: $65 \pm 3^\circ\text{C}$ Recover: $60 \pm 3^\circ\text{C}$
Low Temperature Protection	Charging: $0 \pm 3^\circ\text{C}$ Recover: $5 \pm 3^\circ\text{C}$ Discharging: $-20 \pm 3^\circ\text{C}$ Recover: $-15 \pm 3^\circ\text{C}$

### OPERATING CONDITIONS

Cycle Life	$\geq 5000$
Operating Temperature	Charge: $10^\circ\text{C} \sim 50^\circ\text{C}$ Discharge: $-20^\circ\text{C} \sim 60^\circ\text{C}$
Storage Temperature	$20^\circ\text{C} \sim 50^\circ\text{C}$
Storage Duration	12 months at $25^\circ\text{C}$
Communication	Bluetooth APP

### MECHANICAL SPECIFICATIONS

Case Material	ABS
Dimension (L*W*H)	350*188*175 mm
Weight	11.5KG $\pm 5\%$
Terminal Type	M8
IP Grade	IP65
Certification	UN38.3/MSDS/CE
Cell Chemistry	LiFePO4