



ETERION
Energy

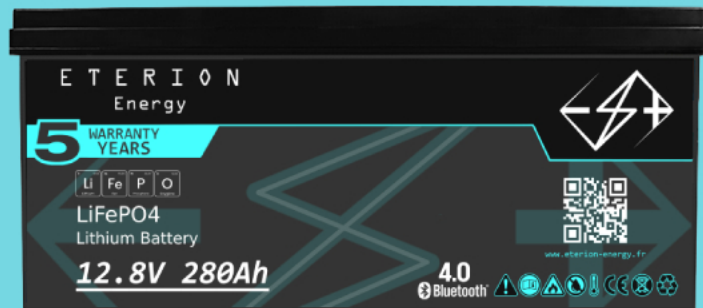
ETERION ENERGY Product Datasheet

Battery LiFePO4: AQ122800

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	280 AH
Energy Capacity	3584 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	140A
Max. Continuous Discharge Current	200A
Peak Discharge Current	650A
Recommended Charge Current / A	80A
Recommended Discharge Current / A	150A
Charge Current Cut-Off / A	0.3A

OPERATING CONDITIONS

Cycle Life	≥ 5000
Operating Temperature	Charge: 10°C ~ 50°C Discharge: -20°C ~ 60°C
Storage Temperature	20°C ~ 50°C
Storage Duration	12 months at 25°C
Communication	Bluetooth APP

MECHANICAL SPECIFICATIONS

Case Material	ABS
Dimension (L*W*H)	522*240*218 mm
Weight	28.5KG $\pm 5\%$
Terminal Type	M8
IP Grade	IP65
Certification	UN38.3/MSDS/CE
Cell Chemistry	LiFePO4

BMS SPECIFICATIONS

Primary Charging Over- Current Protection	Current: $> 140.0 \pm 2.5\text{A}$ Delay Time: $15 \pm 2\text{s}$
Secondary Charging Over-Current Protection	Current: $> 200.0 \pm 2.5\text{A}$ Delay Time: $\leq 3\text{s}$
Primary Discharging Over- Current Protection	Current: $> 200.0 \pm 2.5\text{A}$ Delay Time: $15 \pm 2\text{s}$
Secondary Discharging Over- Current Protection	Current: $> 220.0 \pm 2.5\text{A}$ 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: $-15 \pm 3^{\circ}\text{C}$