



ETERION
Energy

ETERION ENERGY Product Datasheet

Battery LiFePO4

12V 100Ah

Attentions:

- When the battery needs to be used in parallel or in series, each battery shall be fully charged according to the standard charging method before parallel or in series.
- When the battery is discharged empty. It should be recharged in time. Otherwise the BMS can't work due to low voltage, and the battery will be permanently invalidated.

Features

Guaranteed
Safety

Cost
effectiveness

Drop in
Replacement

Fast charge

Longer service
life



NORMINAL CHARACTERISTICS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
IR	≤50mΩ@100%
Efficiency	SOC ≥99.5%
Maximum Modules in Series	4

CHARGE & DISCHARGE CHARACTERISTICS

Voltage Window	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

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 CHARACTERISTICS

Case Material	ABS
Dimension(L*W*H)	330*172*215 mm
Weight	11.5 Kg±5%
Terminal Type	M8
IP Grade	IP65
Certification	UN38.3/MSDS/CE
Cell Type-Chemistry	LiFePO4

BMS CHARACTERISTICS

Primary Charging Protection	Current: >50.0±2.5A Delay time:15±2s
Secondary Charging Protection	Current: >60.0±2.5A Delay time: ≤3s
Primary Discharging Protection	Current: >150.0±2.5A Delay time:15±2s
Secondary Discharging Protection	Current: >160.0±2.5A Delay time: ≤3s
Over-charge Voltage Protection	Voltage:>14.8±0.2V Delay time:≤3s
Over-discharge voltage protection	Voltage:<10.0±0.3V Delay time: ≤3s
High Temperature Protection	Charging: 65±3°C Recover: 60±3°C Discharging: 65±3°C Recover: 60±3°C
Low Temperature Protection	Charging: 0±3°C Recover: 5±3°C Discharging: -20±3°C Recover: -15±3°C