

12V 50Ah LiFePO4

Product Image



Summary

 BATARYASAN introduces the 12V-50Ah LiFePO4, a cuttingedge rechargeable battery designed to redefine power storage. Leveraging Lithium Iron Phosphate technology, our product boasts exceptional energy density and an extended lifespan, ensuring reliability for diverse applications. With a compact design and eco-friendly composition, our battery addresses the growing demand for sustainable energy solutions. The 12V-50Ah LiFePO4 by BATARYASAN sets a new standard for high-performance energy storage, delivering efficiency, durability, and environmental consciousness in a single, powerful package.

Mechanical Specifications

٠	Case Material	

- Cell Type-Chemistry
- Terminal Type

Cylindrical LiFePO4 M8

ABS

Basic Performance

Nominal Voltage	12.8V
Nominal Capacity	50Ah
Standard Discharge Time	25A@60min
Capacity	640Wh
• Self Discharge	<=2%/Month
• Cells	3.2V- 6Ah
Cycle Life	3000 times(25°C)
• Size (mm)	150x180x150
• Weight (kg)	5.6

BMS Specifications

Recommended Charge Current	25A
Maximum Charge Current	25A
Max Continuous Discharge Current	50A
 Recommended Charge Voltage 	13.6~13.8V
Maximum Charge Voltage	14.6V
Overcharge Protection Voltage	14.8~15.2V
Charge Mode	cc/cv
Discharge Cut-off Voltage	10.8V

Charge Performance

Rated Charge Current	25A
Maximum Charge Current	25A
Rated Charge Voltage	13.6~13. 8V
Charge Cut-off Voltage	>14.8V

Discharge Peformance

Rated Discharge Current	50A
 Pulse Current(<=5S) 	150A
 Rated Discharge Cut-off Voltage 	10.8V
 Minimum Discharge Cut-off Voltage 	>10V
Short Circuit Protection	200~600 µs
Short Circuit Protection	Approx. 1200A

Temperature Performance

Discharge Temperature	−20~60°C
Charge Temperature	0~45°C
Storage Temperature	0~45℃
High Temperature Cut-off	65°C

Certifications





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