

Yassine Energy Solutions

Lumina LiFePO4 Battery



SAFE

**Smart
BMS**

**16.0
Kwh**

**8000
Cycle**

**5
years
warranty**

Safe

The LiFePO4 battery prioritizes safety with its stable chemistry, minimizing risks of overheating and combustion. Built-in protection mechanisms guard against overcharging, over-discharging, and short circuits, ensuring a secure and reliable power source for various applications, including electric vehicles and renewable energy storage.

High Performance and Long Life

Support 150A continual charge and discharge. 8000 cycles at 80% DOD, with round-trip energy efficiency over 90%, 15 years approximated life time and 5 years standard warranty.

Scalable

Modular design, easy to expand, Max. 16 units in parallel (support batteries in parallel with different SOC, auto balance). Suited to residential and commercial applications.

Balanced

Installed inside, an Active balancer with 2A maximum balancing current to ensure maximum efficiency of the lithium cells working independently and parallel to the smart Bms.

Compatible

Can be matched with most of the available hybrid and off grid solar inverters in the worldwide market.

Plug and Play

Thanks to its user-friendly design. The streamlined installation process ensures convenience for users. Moreover, the battery is equipped with advanced communication capabilities, allowing seamless integration with computers and Bluetooth-enabled devices. This feature facilitates real-time monitoring and control, providing users with valuable insights into the battery's performance and enhancing overall user experience.

Reliable

Built-in intelligent BMS, (Battery Management System) managing output and input power smartly and effectively and providing complete protection.

→
Connected

2A
active
balancer

16 pcs
parallel



Protected

Technical data

Model	16.0 Kwh
Capacity (Ah)	314
Nominal voltage (v)	51.2
Voltage range	44.8 → 57.6
Recommended bulk charge voltage (v)	56.8
Recommended float charge voltage (v)	56.8
Recommended Discharge cut-off voltage (v)	48
Recommended charge and discharge current (A)	≤ 140
Cycle life	8000 @25°C, 80% DOD
Parallel connection	16 pcs
Communication	Can & Rs485, Bluetooth
Weight (Kg)	106
Balancer	Active
Balancer current (A)	2
Altitude (m)	≤ 2000
Warranty period (years)	5
Certificate	IEC62619, UL1973, MSDS, UN38.3, UL9540A-SGS, RoHS, GBT36276, GBT31485



UL 1973
UL 9540A



SERVICES AVAILABLE

Technical Support Installation and Setup
Application Support Hardware Support

Maintenance
Guaranteed Warranty

 Lumina
technology
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