

LiFePO4 Battery

Precision Storage, Portable Power

51.2V 314AH 16.08kwh

8000 Cycles
with 80% DOD

High Safety LiFePO4 Cells

Powered by premium LFP cell technology, it adopts reliable battery solutions to deliver safe, durable, and worry-free energy storage.



Introduction

High-performance LiFePO4 energy storage battery with 8000 cycles @80% DOD for a long service life. Advanced BMS supports dynamic loop monitoring and multi-unit parallel connection, making it ideal for commercial, industrial and outdoor applications.



WiFi & Bluetooth

Dual connectivity for remote monitoring and local configuration



Flexible Capacity

Multiple identical units parallel expandable capacity



Easy Installation

Quick plug & play, parallel ready, simple wiring



Built-in Fire Safety

Integrated fire suppression system for maximum safety



LED Display

Real-time SOC, battery status indication



Certifications

CE, IEC, UN38.3, MSDS compliant



Specific Parameters

Model	RS01-51.2V100AH	RS01-51.2V200AH	RS01-51.2V314AH
Rated Voltage	51.2V		
Rated Capacity	100Ah	200Ah	314Ah
Rated Energy	5120Wh	10240Wh	16080Wh
Communication	CAN/RS485		
Actual volumetric efficiency	≥100% Nominal Energy		
Recommended Charge Current	<100A		<150A
Recommended Charge Voltage	57.6V		
BMS Charge Cut-Off Voltage	58.4V		
BMS Charge Cut-Off release Voltage	≤57.6V		
Efficiency	>98%		
Dimension L*W*H (mm)	478*230*628	480*203*1020	898*480*275
Weight (kg)	≈48	≈96	≈122
Enclosure Protection	IP20		

Core Accessories & Adaptation

1. Exclusive parallel connection cables are provided as standard, which are one-to-one matched with battery modules; Mixed insertion is strictly prohibited
2. Supports multi-group parallel connection and is compatible with battery rack installation; for outdoor integrated power cabinets, the battery rack-type installation scheme can be referred to
3. BMS supports communication cascade and can be connected to the dynamic loop monitoring system via RS485 network cable