

LiFePO4 Battery

Precision Storage, Portable Power

51.2V 100AH 16.08kwh

6000 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.



Built-in fire extinguisher



Introduction

High-performance LiFePO4 energy storage battery with 6000 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

● Dimensions



Specific Parameters

Model	Matrix-5.0
Rated Voltage	51.2 V
Rated Capacity	100 Ah
Rated Energy	5.12 kWh
Dimensions (L×W×H)	452 x 224 x 648 mm
Weight	48 kg
Discharge Cut-off Voltage	42.6V
Charge Cut-off Voltage	58.4V
Standard Charge/Discharge Current	50A
Continuous Charge/Discharge Current	50A (0.5C)
Maximum Charge Current	100A
Maximum Discharge Current	100A
Operating Temperature	Charge 0~40°C / Discharge -20~60°C
SOC Range / Recommended	10%~90%
Communication	CAN/RS485
Protection Level	IP20
Max Parallel Modules	15 modules

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