



PRODUCT BROCHURE

Provide Flexible and Effective Energy
Solutions for Global Partners



Anhui Lvwo Energy Technology Co., Ltd.

ABOUT US

安徽绿沃循环能源科技有限公司

Lwvo Energy Technology Co., Ltd is a high-tech enterprise specializing in the R&D, production, sales of LiFePO4 cells and PACK assembly and energy storage system.

Battery Packs produced by Lwvo Energy are widely used in Home energy storage systems, industrial and commercial energy storage systems, lead-acid replacement, UPS power, intelligent battery swapping stations, communication backup power, portable power supply, solar street lights, energy storage systems and other essential fields.

Our company fully supports the exclusive customization of battery packs for precisely meeting your diverse needs.



1600+

Experienced Staff



260km²

Industrial Park



522+

Product Patents



Lwvo Energy industrial park covers an area of more than 400 acres (over 260,000 square meters). The industry chain includes positive electrode materials, negative electrode materials, steel shells, caps, diaphragms, LiFePO4 cells, PACKs, big data centers, intelligent battery swapping stations, BMS, soft connectors, wiring harnesses, sheet metal, hardware, new energy compartments, cardboard boxes, as well as operation platforms and scientific research institutes associated with new energy batteries.



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材料安全数据表
Material Safety Data Sheet

样品名称: 磷酸铁锂电池
Sample name: LIFePO4 Battery
样品型号: 51.2V280Ah
Sample model: 51.2V280Ah
申请人: 安徽绿沃循环能源科技有限公司
Applicant: Anhui Lwvo Recycling Energy Technology Co., Ltd.

UN38.3 检测报告
UN38.3 Test Report

样品名称: 磷酸铁锂电池
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机架储能解决方案

48V Rack-Mounted LiFePO4 Battery

10Ah, 30Ah, 50Ah, 100Ah, 150Ah, 200Ah



48V 100Ah 机架储能电池组采用先进的磷酸铁锂电池技术，内置智能 BMS，可实时监控电压、温度、充放电状态，实现过充 / 过放 / 过热 / 短路全链路保护，保障电池模块安全运行；产品支持灵活并联扩容，采用标准 19 英寸机架式模块化设计，支持即插即用安装，标配 RS232/RS485/CAN/SNMP 等多种通信协议；

模块化架构设计兼顾安装便捷性与系统扩展性，可用于需要大功率输出和长放电时间的应用。

The 48100 battery pack uses advanced LiFePO4 technology, Built-in intelligent BMS, to protect the battery module. It can be used in parallel. Standard cabinet frame design. Support communication protocols RS232, RS485,CAN, SNMP.

Modular design for easy installation and expansion. It is mainly used in applications requiring large power output and long discharge times.

项目 Items	48V10Ah	48V30Ah	48V50Ah	48V100Ah	48V150Ah	48V200Ah
48V 机架储能电池规格 Specification						
额定电压 Rated voltage	48V		51.2V	48V		51.2V
系统电压范围 Pack voltage range	37.5 ~ 54V		40 ~ 58.4V	40.3-54.5V		40 ~ 58.4V 43.2-56.4V
额定容量 Rated capacity	10Ah	30Ah	50Ah	100Ah	150Ah	200Ah
总能量 Total energy	480Wh	1440Wh	2560Wh	4800Wh	7680Wh	10240Wh
SOC范围 SOC range	10%-100%					
充放电效率 Charging and discharging efficiency	≥96%					
标准充电电流 Standard charge current (A)	≤5	≤15	≤25	50	≤75	100
标准放电电流 Standard discharge current(A)	≤10	≤30	≤25	100	≤75	200
最大放电电流 Max. discharging current(A)	≤20	30	≤50	100	150	200
总重量 Total weight	13Kg	22Kg	30.3kg±2/30kg±2	41±2kg	75kg	75±3kg
外壳材质 Case material	钣金 sheet metal					
串并联方式 Series-parallel	15S1P		16S1P	15S1P	16S1P	16S2P
环境温度 Ambient temperature	充电 Charging: -10°C ~ 60°C, 放电 Discharge: -20°C ~ 65°C					
尺寸 Dimension(mm)(L*W*H)	440*341.5*44		483*330*132	482*480*222	440*480*280	482*480*222 440*480*280
输入、输出方式 Input/output method	栅栏端子 Fence terminal					



19 英寸机柜

19-inch Cabinet

太阳能储能

Solar Energy Storage

工商业储能系统

C&I ESS

UPS 电源

UPS Power

电池储能系统

Suitable for BESS

电信备用电源

Telecom Backup Power

住宅储能系统

Residential Energy Storage





48V Rack-Mounted LiFePO4 Battery

10Ah 30Ah 50Ah 100Ah 150Ah 200Ah

Suitable for BESS & Telecom Backup Power & Home Energy Storage & 19-inch Cabinet & Solar Energy Storage & Commercial/Industrial ESS & UPS Power

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48V Rack-Mounted LiFePO4 Battery Specification

Items	48V10Ah	48V50Ah	48V100Ah	48V200Ah
Rated voltage	48V	51.2V	48V	51.2V
Pack voltage range	37.5-54V	40-58.4V	40.3-54.5V	43.2-56.4V
Rated capacity	10Ah	50Ah	100Ah	200Ah
Total energy	480Wh	2560Wh	4800Wh	10240Wh
SOC Range	10%-100%			
Charging and discharging efficiency	≥96%	≥96%	≥90%	≥90%
Standard charging current(A)	≤5	≤25	50	100
Standard discharge current(A)	≤10	≤25	100	200
Max. discharging current (A)	≤20	≤50	100	200
Total weight	13kg	30.3kg±2/30kg±2 Firefighting options	41± 2 kg	75± 3 kg
Case material	sheet metal			
Series-parallel	15S1P	16S1P	15S1P	16S2P
Ambient temperature	Charging: -10°C ~60°C discharging: 20°C ~60°C	Charging: -10°C ~60°C discharging: 20°C ~60°C	Charging: 0°C ~65°C discharging: -10°C ~65°C	Charging: 0°C ~55°C discharging: -10°C ~55°C
Dimension(mm)(L*W*H)	440*341.5*44	442*480*132.5	440*450*150	440*480*280
Input/output method	Fence terminal			



One-Stop Solutions, Worldwide Collaboration.
Become Our Partner and Unlock Endless
Possibilities.



Anhui Lvwo Energy Technology Co., Ltd.
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Official Website lvwo-energy.com



Product Brochure Official Website
