

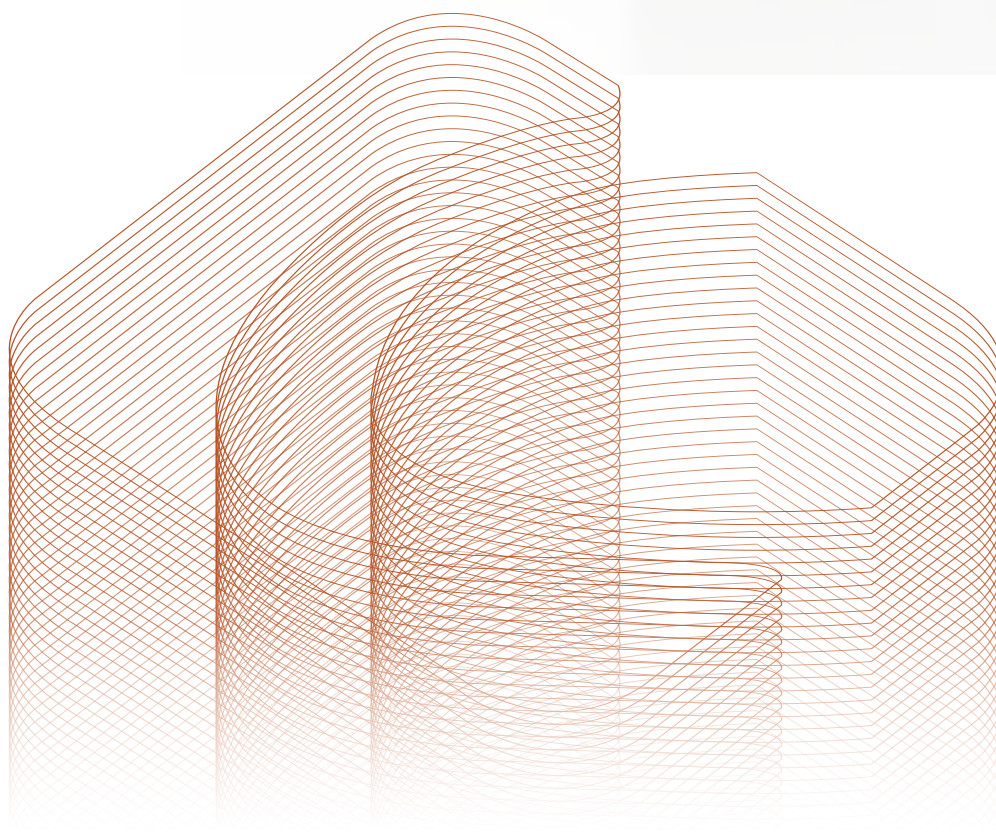


16kWh 用户侧 移动储能电池包

16kWh USER-SIDE

MOBILE ENERGY STORAGE CABINET

16kWh



产品概述 >>>

Product Overview



本品为 16kWh 一体式移动储能电池包，采用高安全、长循环的磷酸铁锂（LiFePO₄）314Ah 电芯，内置智能 BMS 电池管理系统，集成直流空开、通讯接口及可视化显示屏，实现智能管控。

产品采用轮式移动设计，可灵活部署于户外作业、家庭应急、商业活动等无电场景，提供稳定可靠的离网电力支撑。

This product is a 16 kWh integrated mobile energy storage battery pack. It adopts high-safety, long-cycle-life lithium iron phosphate (LiFePO₄) 314 Ah cells, and integrates an intelligent Battery Management System (BMS), a DC circuit breaker, communication interfaces, and a visual display screen to enable intelligent management and control.

With its mobile wheeled design, the system enables flexible deployment for off-grid applications, power outages, outdoor operations, home backup, and commercial events—providing reliable power wherever it's needed.

产品特点 >>>

Product Features

01 性能领先, 用电更足 / Leading Performance with More Usable Energy

- 最大放电深度 (DOD) 达**98%**, 可用电量达15.68kWh, 较常规产品 (90% DOD / 15.3kWh) 提升2.5%;
Maximum Depth of Discharge (DOD) reaches 98%, delivering up to 15.68 kWh of usable energy, a 2.5% increase over conventional products (90% DOD / 15.3 kWh).
- 充放电转换效率更高, 用户实际用电收益更可观;
Higher charge/discharge conversion efficiency provides greater real-world energy benefits to users.

02 高强防护, 部署轻松 / Robust Protection and Easy Deployment

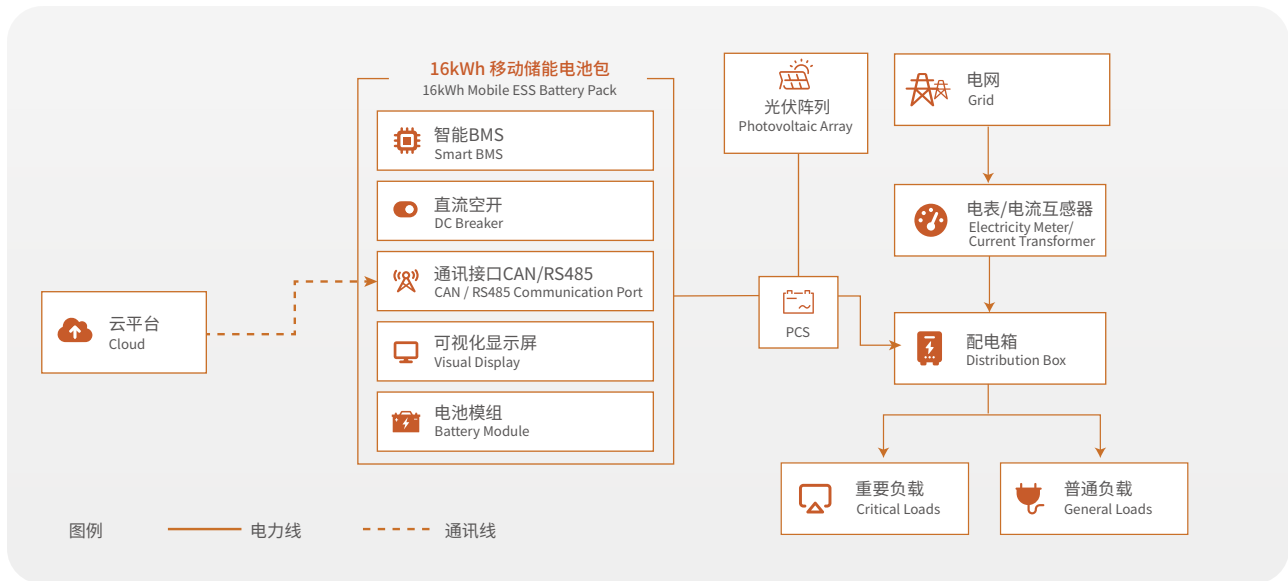
- 整机防护等级达**IP65**, 防尘防溅水, 户外环境从容应对;
Overall ingress protection rating of IP65, providing dust-tight protection and resistance to water jets, making the unit well suited for outdoor environments.
- 紧凑化结构设计, 配合轮式移动方案, 单人即可完成搬运与现场安装, 大幅降低部署与转场成本;
Compact structural design combined with a wheeled mobility solution enables a single person to handle transport and on-site installation, significantly reducing deployment and relocation costs.

03 长久耐用, 省心省力 / Long Service Life and Hassle-Free Maintenance

- **8000**次超长循环寿命 (@25°C, 0.5C, 80%DOD), 较常规产品 (6000次) 提升33%, 每日一充可用20年以上;
8,000 cycles for exceptional longevity (@25°C, 0.5C, 80% DOD), 33% longer cycle life than conventional products (6,000 cycles), delivering 20+ years of service life with one full charge and discharge cycle per day.
- 自然冷却设计, 无风扇等运动部件, 结构更简单, 运行零噪音, 维护成本大幅降低;
Natural cooling design eliminates fans and other moving parts, resulting in a simpler structure, zero-noise operation, and significantly reduced maintenance costs.

► 系统拓扑

System Topology



规格参数 >>>

Specification

型号/Model

产品型号/Product number	LHD51E16KP10K
电池类型/Battery type	方形磷酸铁锂电芯 Prismatic lithium iron phosphate battery cell
电芯配置/Battery pack configuration	314Ah*1P16S
工作电压范围/Operating voltage range	40~58.4V
直流额定功率/Rated DC power	8kW (@95%效率 / @ 95% efficiency)
直流额定电压/Rated DC voltage	51.2V
直流额定电流/Rated DC current	157A
最大充放电电流/Max. Charge/Discharge Current	200A
额定容量/Rated capacity	16kWh

常规参数/parameters

尺寸(L×W×H) /Dimension	440×240×795mm(不含万向轮)/(Without universal wheels)
重量/Weight	130kg
安装方式/Installation method	落地安装 / 挂墙安装 /Floor-mount / Wall-mount
冷却方式/Cooling method	自然冷却 / Natural cooling
防护等级/Protection level	IP65
使用寿命/Service life	8000 次 (0.5C,70% DOD,@25°C) 8000 cycles (0.5C,70% DOD,@25°C)
工作温度范围/Operating temperature range	充电 0°C~+60°C/ 放电 -30°C~+60°C Charging: 0°C~+60 °C / Discharging: -30°C~+60 °C
储存温度/Storage Temperature	-20°C~+45°C
系统连接/System connection	最大支持 16个 PACK 并联 Supports up to 16 PACKs in parallel
通讯接口/Communication interface	CAN/RS485

应用场景 >>>

Application Scenarios

01 家庭应急 停电备电·应急供电

Household Emergency Backup/ Backup Power for Outages · Emergency Power Supply



冰箱100W + 照明50W + 路由器20W + 手机充电25W总计可用 约**3.3天**
Up to 3.3 days simultaneous use of 100W refrigerator, 50W lighting, 20W router and 25W phone charging.

02 商业活动

Small Commercial Establishments



商用冰柜连续使用 约**4.3天**
Commercial freezer – up to 4.3 days of runtime.

03 户外作业

Outdoor Operations



移动充电站（多设备）连续使用 约**2.1天**
Mobile charging station (multi-device) – up to 2.1 days of runtime.



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