

6kWh便携式移动电源

LPA51E6KP6K

6kWh Portable Mobile Power Supply LPA51E6KP6K

产品用户手册

Product User Manual



请在操作您的设备前仔细阅读本手册并保留以供将来参考。

Please read this manual carefully before operating your device and keep it for future reference.

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1. 产品概述 >>>

Product overview

产品定位/Product positioning

6kWh便携式移动电源是一款专为满足多样化电力需求设计的高效能源设备,凭借轻量化设计与强劲性能,可在户外作业、家庭应急、露营旅行等多种场景中,随时随地为用户提供清洁、安静的电力支持,有效解决不同场景下的电力短缺问题。

The 6kWh portable power supply is a high-efficiency energy device specially designed to meet diverse power needs. Featuring a lightweight design and robust performance, it delivers clean, quiet power support to users anytime and anywhere for a wide range of scenarios including outdoor work, home emergency, camping and travel, effectively solving power shortage issues in different settings.

核心价值/Core value

1.轻量化设计:保证6KW大功率输出的同时,严格控制产品重量与尺寸,方便用户搬运和携带,适应各类移动使用场景。
While ensuring 6KW high-power output, the product's weight and dimensions are strictly controlled for easy transportation and portability, catering to a variety of mobile application scenarios.

2.强劲供电能力:作为6KW大功率移动电源,能够轻松驱动小型电动工具(如电钻、角磨机等)以及应急家电(如冰箱、空调、电饭煲等),满足多种高功率用电需求。

Powerful Power Supply Capacity: As a 6kW high-power portable power station, it effortlessly drives small electric tools (e.g., electric drills, angle grinders, etc.) and emergency household appliances (e.g., refrigerators, air conditioners, rice cookers, etc.), meeting a diverse range of high-power electricity demands.

3.灵活补能方式:支持市电、光伏两种输入方式进行快充,用户可根据不同环境条件选择合适的补能途径,补能便捷又灵活。

Flexible charging methods: It supports both mains power and photovoltaic power as charging inputs for fast charging. Users can choose the appropriate charging method according to different environmental conditions, making the charging process convenient and flexible.

4.绿色静音优势:采用绿色环保的电力供应方式,且运行过程中噪音极低,相比传统燃油发电机,更加环保、易用,不会对环境造成污染,也不会产生嘈杂的噪音干扰。

Green & Silent Advantage: The system adopts an eco-friendly power supply method and operates with minimal noise. Compared to traditional fuel-powered generators, it is more environmentally friendly, easier to use, produces no pollution, and generates no disruptive noise.

市电边充边放功能

The function of charging and discharging simultaneously using mains power

支持/Support

AC/DC同时充电

AC/DC simultaneous charging

支持/Support

AC充电功率6000W

AC charging power: 6000W

AC+DC总充电功率

Total charging power of AC+DC

9000W

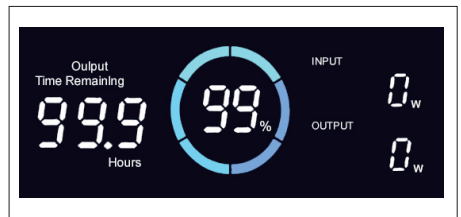
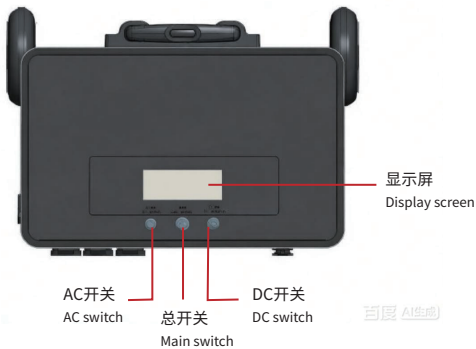
DC充电功率3000W

DC charging power: 3000W

2. 产品参数 >>> Product Parameter

系统参数/System parameters	具体规格/detailed specification
直流电压范围/DC side voltage range	40-58.4Vdc
交流输出电压/Output voltage	230V50Hz@AC
系统配置/System configuration	1P16S -119Ah
循环寿命/Cycle life	≥4000 cycles 0.5P@25°/25°,80%DOD
交流额定功率/Rated AC-Inveter power	6kW
系统转换效率/System Efficiency	≥90%
标称能量/Nominal Energy Capacity	6092.8Wh
最大充/放电功率 Max.Charging/Discharging Power	6kW
最大光伏充电功率/Max.PV Charging Power	3kW
交流输出插座/AC Output socket	工业5孔插座10A*2、16A*1 Industrial sockets,5-hole 10A*2,waterproof 16A*1
交流输入口/AC Input port	三脚品字插座 Three-legged U-shaped socket:230V50Hz10AMax@AC
光伏输入口/PV Input port	XT60公头 XT60 jack connector:12-30V 10A;30-150V 30A
直流输出口/DC Output port	DC5521*2+点烟器*1:12V10A DC5521*2+Car Charger * 1:112V 10A
USB输出口/USB output port	USB-A 12W*2;USB-A 18W*2;USB-C 30W*1;USB-C 100W*1
尺寸/Dimensions (L*W*H)	560mm*430mm*510mm
重量/Weight	72kg
防护等级/Ingress Protection	IP54
使用温度/Operating Temperature	-20°C~40°C(大于40°C降额/derating required at above 40°C)
使用湿度/Operating Humidity	<95%(非凝露/non-condensing)
使用海拔/Operating Altitude	≤2000m(大于2000m降额/derating required at above 2000m)
冷却方式/Cooling method	风冷/Air-cooled
人机交互/Human-computer interaction	LCD显示屏/LCD Display

外观说明与屏显说明/Appearance description and screen display description



百度 AI生成

序号 Number	图标/Icon	功能/Function	图标/Icon	功能/Function	图标/Icon	功能/Function
1		剩余时间 Remaining time		电量 SOC Battery State of Charge (SOC)		风扇图标 Fan icon
2		输入功率或电压 Input power or voltage		低温报警图标 Low temperature alarm icon		异常报警图标 Abnormal alarm icon
3		输出功率或电压 Output power or voltage		高温图标 High Temperature Icon		并机图标 Dual-computer icon
4		AC 市电输入图标 AC mains input icon		DC 点烟器输出图标 DC cigarette lighter output Icon		光伏输入图标 Photovoltaic input icon
5		TYPE-C 输出图标 TYPE-C Output icon		USB 输出图标 USB output icon		AC 输出频率图标 AC Output Frequency Icon
6		UPS 功能图标 UPS function icon		LED 照明灯图标 LED lighting icon		蓝牙图标 Bluetooth icon
7		AC 输出图标 AC output icon		无线充图标 Wireless charging icon		WIFI 图标 WIFI icon

3. 产品安装与准备 >>>

Product Installation and Preparation

开箱检查/Unpacking Inspection

1. 打开产品包装后，首先检查储能电源主体是否存在外观损坏、变形等情况。

After unpacking the product, first check the main body of the energy storage power station for any external damage, deformation, or other abnormalities.

2. 核对包装内的配件是否齐全，通常包括产品说明书、市电充电线、光伏充电连接线（若有配备）等，如发现配件缺失或损坏，请及时联系经销商或厂家客服。

Check if all the accessories inside the package are complete. These usually include the product manual, AC charging cable, and photovoltaic charging connection cable (if equipped). If any accessories are missing or damaged, please contact the dealer or the manufacturer's customer service immediately.

放置要求/Placement Requirements

1. 选择平整、干燥、通风良好的地面放置产品，避免将其放置在潮湿、积水、高温暴晒或有腐蚀性气体的环境中，以防影响产品性能和使用寿命。

Place the product on a flat, dry, and well-ventilated surface. Avoid damp, water-prone, high-temperature direct-sunlight, or corrosive gas environments to prevent impacts on product performance and lifespan.

2. 放置位置应远离火源、易燃易爆物品，确保安全。

The placement location should be kept away from fire sources and flammable/explosive materials to ensure safe usage.

3. 由于产品净重60kg，搬运时建议借助搬运工具或由多人协作，避免单人搬运造成身体损伤或产品跌落损坏。搬运过程中，严禁倒置或剧烈碰撞产品。

The product has a net weight of 60kg. It is recommended to use handling equipment or involve multiple people during movement to avoid personal injury or damage from dropping. During handling, do not invert the unit or subject it to severe impact.

4. 充电操作指南 >>>

Charging Operation Guide

市电充电/AC power charging

1. 确认市电电源电压符合产品要求 (220V左右, 具体以当地市电标准为准), 并确保充电插座接地良好。
Verify that the mains power supply voltage meets the product requirements (approximately 220V, subject to the local mains power standards), and ensure that the charging socket is properly grounded.
2. 取出产品配备的市电充电线, 一端插入储能电源的市电充电接口, 另一端插入市电插座。
Remove the AC charging cable provided with the product. Insert one end of the cable into the AC charging port of the portable power station and the other end into an AC socket.
3. 连接完成后, 储能电源会自动启动充电程序, 此时可通过产品显示屏查看充电状态 (如充电电流、充电电压、剩余电量等)。
After the connection is completed, portable power station will automatically start the charging process. At this time, you can check the charging status (such as charging current, charging voltage, remaining battery level etc.) through the product display screen.
4. 充电过程中, 请勿随意插拔充电线, 以免造成电路故障或安全隐患。
During the charging process, please do not randomly plug or unplug the charging cable to avoid causing circuit faults or safety hazards.
5. 当显示屏显示电量已充满 (通常为100%) 时, 表示充电完成, 先拔下市电插座端的充电线, 再拔下储能电源端的充电线, 完成市电充电操作。
When the display shows the battery is fully charged (typically 100%), this indicates charging is complete. First unplug the charging cable from the mains power socket, then unplug the cable from the portable power station to complete the mains charging operation.

光伏充电/Photovoltaic charging

1. 选择光照充足、无遮挡的区域放置光伏板, 确保光伏板能够最大限度地接收阳光, 以提高充电效率。
Choose an area with sufficient light and without any obstructions to place the photovoltaic panels, ensuring that the panels can receive sunlight to the fullest extent possible to enhance the charging efficiency.
2. 取出光伏充电连接线, 将一端与光伏板的输出接口连接牢固, 另一端插入储能电源的光伏输入接口。
Remove the photovoltaic charging connection line. Securely connect one end to the output interface of the photovoltaic panel, and insert the other end into the photovoltaic input interface of the energy storage power supply.
3. 连接完成后, 储能电源会自动检测光伏输入信号并启动光伏充电模式, 用户可通过显示屏查看光伏充电相关参数 (如光伏输入电流、电压、充电功率等)。
Once connected, the portable power station will automatically detect the photovoltaic (PV) input signal and activate the PV charging mode. Users can view relevant PV charging parameters (e.g., PV input current, voltage, charging power, etc.) on the display screen.
4. 光伏充电效率受光照强度、天气状况等因素影响, 在阴天或光照不足的情况下, 充电效率可能会有所下降, 属于正常现象。
The charging efficiency of photovoltaic systems is affected by factors such as light intensity and weather conditions. In cloudy or low-light conditions, the charging efficiency may decrease, which is a normal phenomenon.
5. 当储能电源电量充满或需要停止光伏充电时, 先断开光伏板与连接线的连接, 再拔下储能电源端的连接线。
To stop photovoltaic charging—e.g., when the energy storage unit is fully charged—first disconnect the PV panel from the cable, then unplug the cable from the unit's terminal.

5. 放电操作指南 >>>

Discharge Operation Guide

AC 输出使用/AC output usage

1. 确认储能电源处于开机状态,且剩余电量能够满足用电设备的需求。
Make sure that the energy storage power supply is turned on and that the remaining power is sufficient to meet the requirements of the electrical devices.
2. 将需要供电的AC用电设备(如小型电动工具、应急家电等)的电源插头插入储能电源的AC输出接口。
Insert the power plug of the AC device to be powered (such as small power tools, emergency household appliances, etc.) into the AC output port of the portable power station.
3. 打开用电设备的电源开关,储能电源将为设备提供电力支持,此时可通过显示屏查看输出电压、电流、功率等参数。
Turn on the power switch of the electrical device. The portable power station will provide power support for the equipment. At this time, you can view parameters such as output voltage, current, and power through the display screen.
4. 注意用电设备的总功率不得超过储能电源的AC输出最大功率(6000W Max),避免过载使用导致产品损坏或引发安全事故。
Ensure the total power of connected AC devices does not exceed the maximum AC output of the portable power station (6000W Max). Avoid overloading to prevent product damage or safety hazards.
5. 当用电设备使用完毕或不需要继续供电时,先关闭用电设备的电源开关,再拔下设备的电源插头。
When the connected device is no longer in use or power station is not required, first turn off the device's power switch, then unplug its power cord.

车充输出使用/Car charger output usage

1. 确保储能电源处于开机状态,将车充设备的连接线一端插入储能电源的车充输出接口(12V/10A),另一端连接至需要充电的车载设备(如车载冰箱、手机等)。
Ensure the power station is powered on. Insert one end of the vehicle charger cable into the vehicle charger output port (12V/10A) of the power station, and connect the other end to the in-vehicle device that requires charging (e.g., car refrigerator, mobile phone, etc.).
2. 连接完成后,车载设备将开始充电,注意车载设备的充电功率不得超过车充输出的最大功率(120w max)。
Once connected, the in-vehicle equipment will start charging. Please note that the charging power of the in-vehicle equipment must not exceed the maximum output power of the vehicle charger (120w max).
3. 充电完成后,先断开车载设备与连接线的连接,再拔下储能电源端的连接线。
After the charging is completed, first disconnect the connection between the vehicle equipment and the connecting cable, and then remove the connecting cable at the power station end.

6. 日常维护与保养 >>> Daily maintenance and care

定期检查/Regular checking

- 1.每周至少对储能电源进行一次外观检查,查看外壳是否有破损、划痕,接口是否松动、氧化等情况,如有异常及时处理。
Perform an external inspection of the power station at least once a week. Check the housing for damage or scratches, and verify that ports are secure and free from oxidation. Address any abnormalities promptly.
- 2.每月检查一次电池状态,可通过产品显示屏查看电池电压、容量等参数,确保电池处于正常工作状态。若长期不使用产品,建议每3个月对电池进行一次充放电维护,以延长电池使用寿命。
Check the battery status once a month. You can view parameters such as battery voltage and capacity through the product display screen to ensure the battery is in normal working condition. If the product is not used for a long time, it is recommended to perform a charge-discharge maintenance of the battery once every 3 months to extend its service life.

清洁保养/Cleaning and Maintenance

- 1.清洁产品时,需先关闭电源并断开所有外部连接线。使用干燥、柔软的抹布擦拭外壳表面,避免使用湿布、酒精、汽油等腐蚀性清洁剂,以防损坏外壳和内部元器件。
When cleaning the product, please first turn off the power and disconnect all external connection cables. Use a dry and soft cloth to wipe the surface of the casing, and avoid using wet cloths, alcohol, gasoline or other corrosive cleaning agents to prevent damage to the casing and internal components.
- 2.定期清理接口处的灰尘和杂物,可使用棉签蘸取少量无水酒精轻轻擦拭接口,确保接口接触良好。
Regularly clean the dust and debris at the interface. You can use a cotton swab to apply a small amount of isopropyl alcohol and gently wipe the interface to ensure a good contact.

存储要求/storage requirements

- 1.当产品长期不使用时,应将其存储在干燥、通风、阴凉的环境中,存储温度范围为-10°C~40°C,相对湿度不超过80%。
When the product is not in use for a long time, it should be stored in a dry, ventilated and cool environment. The storage temperature range should be -10°C to 40°C, and the relative humidity should not exceed 80%.
- 2.存储前需将电池电量充至50%~80%,并断开所有外部连接线。避免将产品与易燃易爆物品、腐蚀性物质一同存储。
Before storage, ensure that the battery is charged to 50% to 80% and disconnect all external connection cables. Avoid storing the product together with flammable, explosive items or corrosive substances.

7. 安全注意事项 >>>

Safety precautions

1. 本产品仅适用于指定的输入和输出电压、功率范围，严禁超范围使用，以防损坏产品或引发火灾、触电等安全事故。
This product is only suitable for use within the specified input and output voltage and power ranges. Operating outside these ranges is strictly prohibited to prevent product damage or safety hazards such as fire or electric shock.
2. 操作产品时，应佩戴绝缘手套，避免用湿手触摸电源接口和开关，以防触电。
When operating the product, you should wear insulating gloves and avoid touching the power interface and switches with wet hands to prevent electric shock.
3. 产品运行过程中，如发现异常噪音、异味、冒烟等情况，应立即关闭电源并断开所有外部连接线，停止使用产品，并及时联系专业维修人员进行检查和维修，切勿自行拆卸修理。
If abnormal noise, unusual odor, or smoke is observed during product operation, immediately turn off the power, disconnect all external cables, cease use, and contact qualified service personnel for inspection and repair. Do not attempt to disassemble or repair the unit yourself.
4. 儿童、老人以及不熟悉产品操作的人员，应在专业人员指导下使用产品，以防发生意外。
Children, the elderly, and those who are not familiar with the product operation should use the product under the guidance of professionals to prevent any accidents.
5. 严禁将产品倒置、撞击、挤压或投入水中，以免损坏内部结构和元器件，导致安全隐患。
It is strictly prohibited to invert, strike, squeeze or immerse the product in water, as this may damage the internal structure and components, thereby posing safety risks.
6. 产品的维修和保养必须由厂家授权的专业人员进行，使用非原厂配件或未经授权的维修，可能会影响产品性能和安全，厂家将不承担相关责任。
The repair and maintenance of the product must be carried out by professional personnel authorized by the manufacturer. Using non-original components or unauthorized repairs may affect the performance and safety of the product. The manufacturer will not be held responsible for such incidents.

8. 常见故障排除 >>>

Common Fault Resolution

常见故障/Common fault	可能原因/Possible cause	排除方法/Elimination methods
无法充电 Cannot charge	<p>1. 充电异常, 输入电压是否满足设备正常工作电压范围; Check if the input voltage meets the normal operating voltage range of the device when there is an abnormal charging situation.</p> <p>2. 充电接口松动、氧化; Loose or oxidized charging interface;</p> <p>3. 市电或光伏输入异常; Abnormal input from the mains power or photovoltaic system;</p>	<p>1. 检查充电线连接是否牢固, 更换完好的充电线尝试; Check if the charging cable connection is secure. Replace with a good one and try again;</p> <p>2. 清理充电接口灰尘, 修复或更换松动、氧化的接口; Clean the dust from the charging interface and repair or replace the loose or oxidized interface;</p> <p>3. 检查市电是否正常, 光伏板是否正常工作; Check if the mains power is normal and if the photovoltaic panel is functioning properly;</p> <p>4. 若以上方法无效, 联系专业维修人员检查电池; If the above methods do not work, contact a professional repair person to inspect the battery;</p>
无法放电 Unable to discharge	<p>1. 输出接口接触不良; The output interface is not properly connected;</p> <p>2. 用电设备功率超过产品额定输出功率; The power consumption of the electrical device exceeds the rated output power of the product;</p> <p>3. 产品处于保护状态; The product is in a protective state;</p> <p>4. 内部电路故障; There is an internal circuit malfunction;</p>	<p>1. 检查输出接口连接是否牢固; Check if the output interface connection is secure;</p> <p>2. 更换功率在额定范围内的用电设备; Replace the electrical equipment with a power level within the rated range;</p> <p>3. 关闭产品电源, 等待 5-10 分钟后重新开机, 解除保护状态; Turn off the product power supply, wait for 5-10 minutes, then restart the device to remove the protection status;</p> <p>4. 若仍无法放电, 联系专业维修人员检修内部电路; If the discharge still fails, contact a professional maintenance personnel to inspect and repair the internal circuitry.</p>
显示屏无显示 The display screen shows no image	<p>1. 产品未开机; The product is not turned on;</p> <p>2. 电池电量耗尽; The battery has run out of power;</p> <p>3. 显示屏故障或内部电路问题 Display screen failure or internal circuit issues.</p>	<p>1. 按开机键启动产品; Press the power button to start the product;</p> <p>2. 对产品进行充电, 补充电量; Charge the product to replenish the battery;</p> <p>3. 若充电后仍无显示, 联系专业维修人员检查显示屏或内部电路; If there is still no display after charging, contact a professional repair person to check the display or the internal circuitry.</p>

出厂检验合格证/Factory inspection certificate of conformity

尊敬的客户：

Dear customer:

感谢您选用我公司产品。兹证明以下产品已完成全部出厂检验，各项性能指标均符合质量标准。

Thank you for choosing our company's products. This is to certify that the following products have completed all factory inspections and all performance indicators meet the quality standards.

1. 产品基本信息/Basic product information

产品名称：6kWh便携式移动电源

6kWh Portable Mobile Power Supply

产品型号：LPA51E6KP6K

Product Mode：LPA51E6KP6K

序列号/Serial number：_____

生产批次/Production batch：_____

出厂日期/Date of Delivery：_____年/Year___月/Month___日/Day

2. 签署权/Signing authority

质检员/Inspector：_____

日期/Date：_____年/Year___月/Month___日/Day

质量部盖章/Quality Department Stamp:

公司声明 / Company Statement:

本公司承诺对产品质量负责。请核对产品信息，并参照说明书进行安装与使用。

Our company promises to be responsible for the quality of our products. Please check the product information and install and use it in accordance with the manual.

制造商：安徽勒泽特科技有限公司

Manufacturer: Anhui Lezet Technology Co., Ltd

地址：合肥市包河经济开发区南淝河路与兰州路交口东北100米中关村协同创新智汇园C2栋2楼整层、A1栋1楼西侧、B2栋4楼整层

Address: The entire 2nd floor of Building C2, the west side of Building A1, and the entire 4th floor of Building B2, Zhongguancun Collaborative Innovation Smart Park, 100 meters northeast of the intersection of Nanfeihe Road and Lanzhou Road, Baohe Economic Development Zone, Hefei City

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