

MOBILE ENERGY STORAGE SYSTEM

LES series



Mobile



High Safety



Easy Maintenance



Product Introduction

The structural design of JS SOLAR LES series products is more compact and flexible. These products are green, environmentally friendly, low-noise, zero-pollution, and zero-emission. They enable customers to achieve peak shaving and valley filling, provide portable backup power, reduce grid dependence, improve power supply quality, and ensure emergency load operation during outages. With a maximum energy storage capacity of 723 kWh, they meet diverse power demands across scenarios such as fixed facilities, construction sites, hospitals, EV charging stations, mines, emergency relief, and noise-sensitive areas.

Product Features

- High efficiency, flexibility, safety, reliability, and low noise.
- Supports diesel generator charging to reduce grid reliance.
- Intelligent microgrid activation.
- Off-grid operation with 100% three-phase unbalanced load capacity.
- Compatible with high-altitude regions and strong impact load resistance.
- Power frequency isolation for enhanced safety and reliability.
- Power compensation via APF (Active Power Filter) to improve power quality.
- Plug-and-play design for easy installation.
- IP54-rated outdoor cabinet with $\geq C4$ anti-corrosion rating.
- Long system cycle life.
- Liquid cooling system improves efficiency, reduces system losses, and extends battery lifespan by 10%.
- Main structural frame made of high-quality Corten Steel SPA-H, offering high structural strength for frequent transportation.

Easy to transport

- 2 forklift holes.
- 4 top rings.
- Can be transported as a whole.

Temperature Control System

- Choose China's Top 1 brand.
- Intelligent real-time temperature control.
- High reliability.
- Coolant: 50% ethylene glycol solution.



Automatic fire extinguishing system

- Fluorohexanone-based clean fire suppressant.
- Intelligent automatic control.
- Detection of various combustible gases.
- Multi-level early warning functions.
- Safe and reliable.



LFP Battery

- Choose China's Top 3 brand.
- Cycle life: $\geq 11,000$ cycles @0.5C.

BMS

- Choose China's top 3 brand.
- Multiple safety protections.
- Temperature protection.
- Short circuit protection.
- Insulation protection.
- Over load protection.
- Over charge protection.
- Over discharge protection.
- Over and under voltage protection.
- Over current protection, etc.

EMS

- LCD screen.
- Minimalist UI for easy operation.
- No need to enter the device, external operation runs.
- One-stop platform monitoring.
- Web/Cloud Platform/Remote Control.

External connection

- Plug and play (input/output).
- IP67 waterproof rating.



PCS

- operation.
- Supports off-grid
- Supports generator /mains charging.
- High impact resistance
- 100% three-phase unbalanced load capacity.
- Built-in transformer (optional).
- Built-in STS (optional).
- PV input (optional).

Technical Parameters

Model	JSLES-H10-241	JSLES-H10-482	JSLES-H10-723
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Battery

Battery Type	LiFePO4		
Rated Charge/Discharge Performance	≤0.5C		
Rated Voltage [V]	768		
Operating Voltage Range [V]	672-876		
Cell Rated Capacity [Ah]	314		
Rated Capacity [kWh]	241	482	723
Composition	1P240S	(1P240S) *2P	(1P240S) *3P

AC Data(On-grid)

Rated Charge and Discharge Power [kW]	120	250	360
Max. AC Current [A]	191	397	572
Rated Output Voltage [V]	3/N/PE,230/400		
Rated Frequency [Hz]	50/60		
THDu	< 3% (Linear Load)		
Power Factor	1 (0.8 Leading -0.8 Lagging)		
THDi	<3% (@Rated power)		

AC Data (Off Grid)

Rated Output Power [kW]	120	250	360
Max. Output Current [A]	191	397	572
Rated Output Voltage [V]	3/N/PE, 230/400		
Rated Output Frequency [Hz]	50/60		
Unbalanced Load Capacity	100%		

General Data

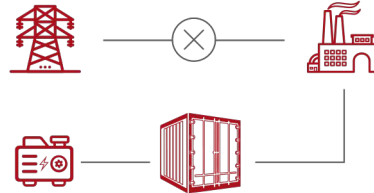
Ingress Protection	IP54		
Communication	CAN, RS485, Ethernet port		
Communication Protocol	Modbus, IEC104		
Working Environment Temperature [°C]	- 20-50		
Electrical Cabin Cooling Method	Air cooling		
Battery Compartment Cooling Method	Liquid cooling		
Fire Fighting System	1230 Fire fighting system		
Relative Humidity	0-95%, No condensation		
Altitude [m]	5000 (> 2000 Derating)		
Delivery Mode	Integral transportation		
Weight [T]	< 5.8	< 7.8	< 9.6
Dimension (W*D*H) [mm]	2991*2438*2896		
Application environment	Outdoor		
Noise [dB]	≤75		

* In case of changes in product dimensions and parameters, the latest information from our company shall prevail without prior notice.

Application Scenarios

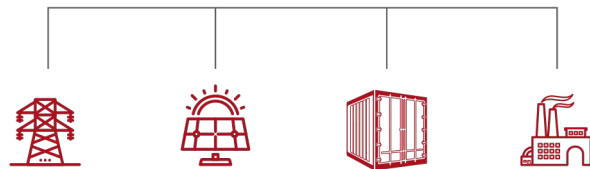
Backup Power Supply

Discharge to secure electricity supply in case of grid outage or limit on electricity supply.



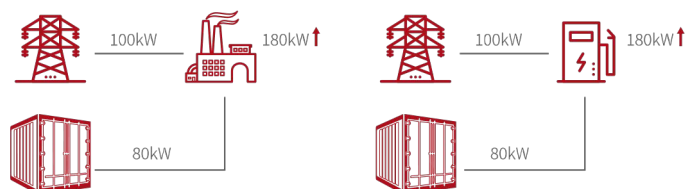
Solar & Energy Microgrid

Can realize electricity saving. Applications such as backup power supply provide stable power in areas that cannot be connected to the grid, such as islands and mountainous areas.



Power Expansion

Discharge when the distribution capacity cannot meet the load demand to achieve the effect of virtual capacity expansion.



Electricity Saving

Peak-Load Shifting.

