

L-ESS

Vertical Lithium Battery Energy Storage System



Li-FePO₄



3-8KW
Out put



APP
Control



Customized
High/low voltage



Customized
capacity



The ESS series product (Energy Storage System) is a high-performance off-grid energy storage system independently developed by us. It uses high-quality lithium iron phosphate batteries and is equipped with an intelligent BMS battery management system. It has long cycle life, high safety performance, and good sealing; High-frequency off-grid photovoltaic inverter, built-in MPPT controller, can provide efficient and reliable energy solutions for photovoltaic off-grid power generation systems, energy storage systems, household photovoltaic storage systems, and industrial and commercial energy storage systems.

The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the battery pack, monitors the system operating data in real time, and quickly enters the troubleshooting work when the system fails, so as to restore the effective power supply more efficiently.

Model	L-ESS-10	L-ESS-15	L-ESS-20
Capacity	10.24KWh/5KW	15.36KWh/5KW	20.48KWh/5KW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V
Rated PV input voltage	360VDC		
MPPT tracking voltage range	120V-450V		
Max input voltage (VOC) at lowest temperature	500V		
Max input power	6000W		
Number of MPPT tracking paths	1Path		
DC input voltage range	42-60VDC		
Rated mains power input voltage	220VAC/230VAC/240VAC		
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)		
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)		
Inverter output efficiency	94%(MAX)		
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)		
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)		
Inverter output waveform	Pure sine wave		
Grid output efficiency	>99%		
Max mains charging current	60A		
Max PV charging current	100A		
Max charging current (Grid+PV)	100A		
Optional mode	Grid priority/PV priority/Battery priority		
Warranty	5~10Years		
Communication	Optional: RS485/RS232/CAN WiFi/4G/Bluetooth		

*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs