



BLOCK-L

Microgrid Energy Storage System

Introduction

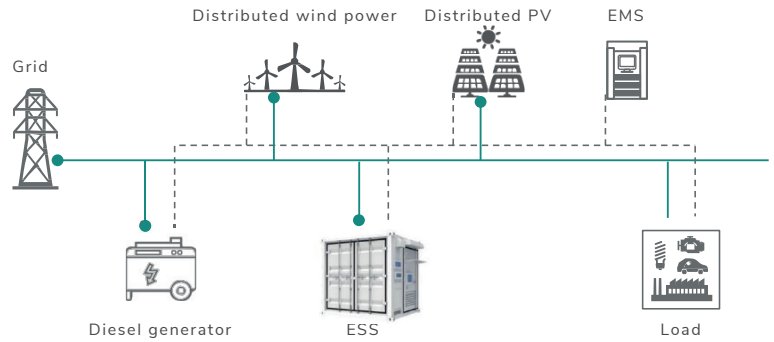
Landport Energy's Block-L is an energy storage system that can easily help you create a microgrid. The energy storage system utilizes LFP batteries to ensure consistent and excellent performance. This product can be a key component in an intelligent platform that combines PV (photovoltaic) panels and, if necessary, a (diesel) generator.

Equipped with energy sources such as PV, the grid, a hydrogen generator, or a traditional diesel generator, the Block-L can form a microgrid system under the coordinated management and control of the ESS (Energy Storage System). This allows the system to optimize user-side power consumption while meeting the needs of the microgrid and accommodating potential changes in demand by multiple scenarios, such as electric vehicle charging.

Features

- High product integration & short project construction period
- Achieve rapid system self-recovery with black start function
- With up to 8,000 battery cycles and 20-year lifespan
- Support high-rate charging and discharging to meet instant high-power demands
- Enable local consumption of newly generated energy and coordinate with the power grid
- Automatically control the start and stop of the diesel engine for seamless mode switching
- Support remote and local monitoring, as well as operation and maintenance, through a cloud platform management system
- Increased battery capacity utilization by 7%, reduced LCOS (Levelized Cost of Storage) by 20% with an intelligent battery management system
- Extremely safe with a five-level safety design, double fire protection, combustible gas discharge, and explosion venting

BLOCK-L



Specifications

Rated energy	300~530kWh
Max. output power	250~500kW
Max. output voltage	400V
Rated frequency	1C(1.5C@500ms)
Rate	50Hz
Output connecting	3 phases, 4 wires
Total current distortion rate	< 3%
DC component	< 0.5%
Power factor	-0.9~0.9
Operating temperature	-30°C~55°C
Storage temperature	-40°C~60°C
Humidity	0~95%
Altitude & Cooling	≤3000m Air cooling
Fire suppression system	HFC-227ea + Water Extinguisher combustible gas emission + explosion venting design
Communication interface	Ethernet
Communication	Modbus
Protection rating	IP55
Certificates	GB36276, IEC62619, UN383
Dimensions (W*H*D)	2991*2438*2896mm