



LEADING THE GLOBAL ENERGY TRANSITION THROUGH STORAGE

INTEGRATED GRID SCALE ENERGY STORAGE



www.leochlithium.us

This for illustration only. The detail refer to specification.

Integrated Grid Scale Energy Storage

2.58MW/5.015MWh

The Leoch Integrated Grid Scale Energy Storage is a state-of-the-art liquid-cooled energy storage solution designed for optimal performance and reliability. Featuring high energy density, advanced safety mechanisms, and a modular architecture, this system is tailored for various applications including peak shaving, frequency regulation, ramp rate control, and backup power.



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Renewable Utilities



Peak Shaving



Frequency Regulation



Ramp Rate Control



Backup Power



Microgrid

PRODUCT FEATURE

Efficient Management

BMS and PCS support communication with third-party EMS, enabling digital intelligent operation and control.

Environmental Adaptability

- Designed to withstand windy and sandy conditions with IP54-rated container and IP67-rated battery pack
- Engineered for industrial areas with C4 anti-corrosion design.

Easy to Install

- Featuring a highly integrated AC/DC compartment, making it easy to install, maintain, and access.
- Offering flexibility and a variety of methods for diverse applications.

Premium Safety and Reliability

- The liquid-cooled temperature control system offers real-time, balanced, and efficient operation.
- State-of-the-art fire mitigation & suppression system
- Designed to save energy, extend battery life, and enhance safety.

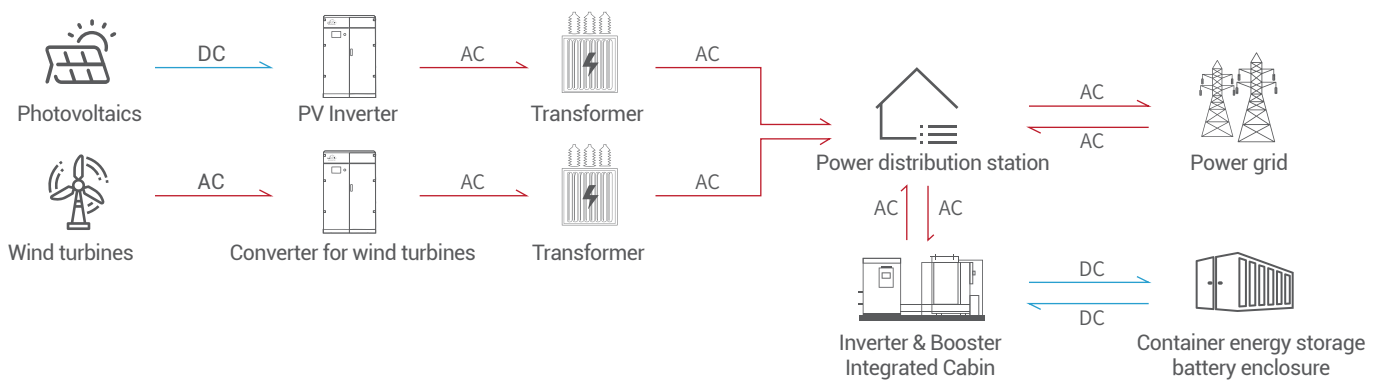
System Model	Epoch-S2580/5015-40L
DC Side Parameters	
Cell type	LFP314
Pack configuration	1P104S
Cluster configuration	1P104S / 4 packs
System configuration	12*1P416S
Normal voltage	5015kWh
Voltage range	1040~1518.4Vdc
Charge discharge rate	0.5C
AC Side Parameters	
Rated power	2580kVA
AC voltage	690Vac/586~759Vac
Grid frequency	50/60Hz±3Hz
AC access method	3P4W+PE
Power factor	-1~1
Maximum THD	< 3%(@rate power)
System Parameters	
Size (W*D*H)	12192mm*2896mm*2438mm
Weight	43t
IP level	IP54
Working altitude	No downgrading below 3000 meters
Operating temperature	-20°C~55°C
Operating noise	≤75dB(A)
Cooling method	Intelligent liquid cooling
Fire protection system	Cabin level aerosol + Water spray fire protection
Communication protocol	CAN, Modbus TCP/IP
Certificate	GB/T36276, GB/T34131, UL9540, UL1973, UL9540A

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Integrated Grid Sale Energy Storage

Engineered to stabilize the grid, enhance energy independence, and enable renewable integration, the system delivers exceptional efficiency and stability, making it an ideal choice for modern energy management needs.



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