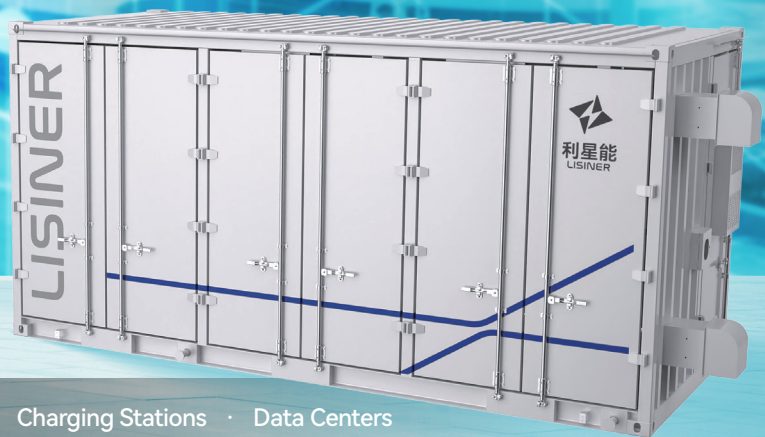# ENERGY STORAGE SYSTEM
– MV & HV SERIES

Generators · Grid · Industrial Parks · Buildings · Charging Stations · Data Centers

Integrated BMS & EMS Control

Enhanced discharge capacity through intelligent and flexible control through BMS and EMS coordination.

Cost Efficiency and Performance Enhancement

High integration leading to a 30% boost in energy density and a 20% decrease in system losses.
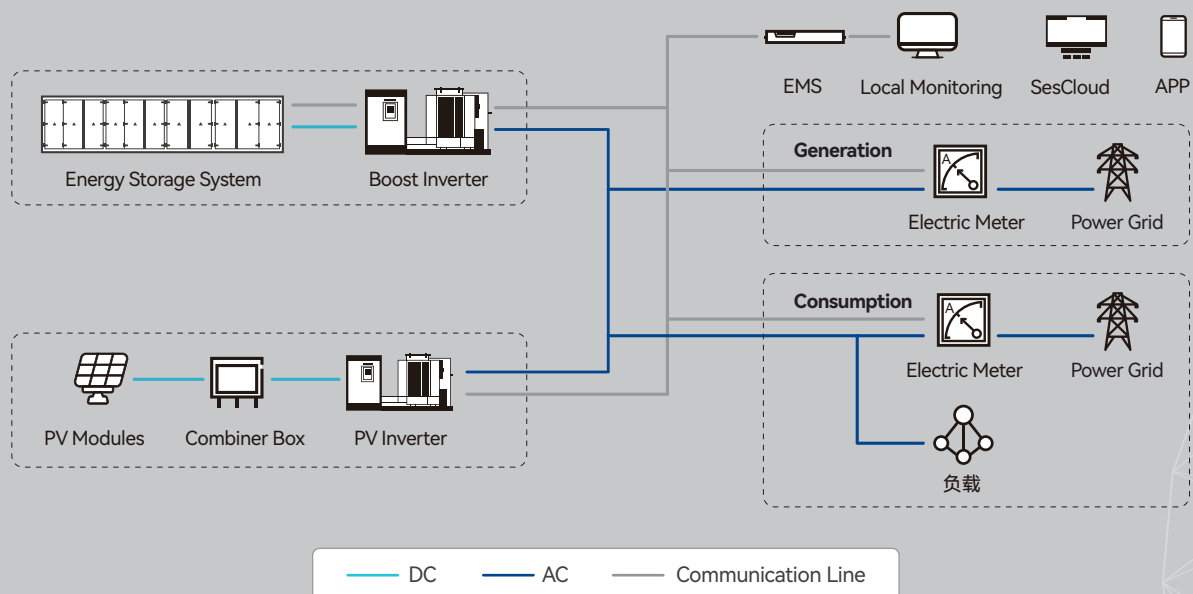
Lifecycle Management

Comprehensive lifecycle management incorporating liquid cooling technology, intelligent battery health management, and more.

Effective Thermal Management

System temperature maintained below 35℃, inter-cluster temperature difference kept within 3℃, and system-level temperature difference within 5℃.

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◆ ENERGY STORAGE SOLUTION

EMS　Local Monitoring　SesCloud　APP

Energy Storage System　Boost Inverter

Generation
Electric Meter　Power Grid

Consumption
Electric Meter　Power Grid

PV Modules　Combiner Box　PV Inverter

负载

| — DC | — AC | — Communication Line |

APPLICATION MODES

▶ Peak Shaving and Frequency Regulation
▶ Power Quality Management
▶ Renewable Energy Consumption
▶ Peak Load Shifting

APPLICATION SCENARIOS

▶ Generators
▶ Grid
▶ Industrial Parks
▶ Commercial Buildings
  (Office buildings, shopping malls, hotels, hospitals, etc.)
▶ Intelligent Solar-Storage Supercharging Stations
▶ Data Centers
▶ Transformer substation (TS) service area expansion

PRODUCT SPECIFICATIONS

Model	C2508L1	C3344L1	C4180L1	C5016L1
BATTERY				
Nominal capacity	2.508MWh	3.344MWh	4.180MWh	5.016MWh
Usable capacity	2.382MWh	3.176MWh	3.971MWh	4.765MWh
Single cell	C314			
Battery pack	416S1P*6	416S1P*8	416S1P*10	416S1P*12
Battery technology	LFP			
Charge/discharge rate	≤0.5P （constant power）			
Cooling method	Liquid Cooling			
BMS (Battery Management System)	Integrated			
Rated DC voltage	1331.2V			
DC voltage range	1164.8Vdc ~ 1497.6Vdc			
Battery life cycle	8000 CYC @25℃, 95% DOD, ≥70% EOL			
COMMUNICATION				
Communication protocol	RS485/CAN/TCP			
Touch panel	10.1 " industrial standard			
OPERATION				
Relative operating humidity	0 - 95%, no-condensation			
Operating temperature range	–25℃ ~ 55℃			
Operating altitude	≤5000m			
DIMENSIONS (TOTAL)				
Dimensions (W x D x H)	6058x2438x2896mm			
Weight	Aprox.27t	Aprox. 32t	Aprox. 37t	Aprox. 42t
SAFETY/STANDARDS				
Protection	IP55			
Safety features	a. Flammable/explosive gas detection b. Flammable/explosive gas exhaust c. Smoke detection d. Temperature detection e. Aerosol fire extinguish f. Siren and strobe alarm g. Emergency stop button			
Certification	IEC 62619, IEC 63056, IEC 61000-6-2/-4, IEC 60730-1, IEC 62477-1, IEC 62933-5-2, UN38.3, UN3536			
WARRANTY				
Warranty	5 years (Option: 10 years)			

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