YOUR SAFE ENERGY

LITHIUMVALLEY

SC261L125-01M

A+ Grade Lithium Iron Phosphate Cells

15-year Design Lifespan

Version:V1.0

Liquid-Cooled Battery All-in-One C&I BESS

Features and Advantages

Safety Technology

- A+grade lithium iron phosphate
- Multi-level fuse design with sequential protection
- Built-in package-level and rack-level gas aerosol fire extinguishing system

Easy to Install and Use

- Highly integrated for ease of transportation, installation and deployment
- Modular design with flexible system capacity configuration

More Reliable

- The system is rigorously designed and tested to operate stably under various conditions
- Equipped with protections against overcharge over-discharge, and over-temperature to prevent accidents

Energy Management System

- Emergency power supply
- Peak shaving
- Demand mitigation
- Self-consumption
- Micro-grids
- Price arbitrage

Technical Parameters

Model	SC261L125-01M
Battery Data	
Nominal Energy	261kWh
Nominal Voltage	832V
Battery Model	SC52T05-314
Battery Chemistry	Lithium Iron Phosphate(LiFePO4)
Cycle Life	≥8,000 cycles(@25°C, 0.5P/0.5P)
Cell Specification	3.2V 314Ah
Battery Pack Energy	52.2kWh
String Configuration	1P260S
Number of Racks	1
Operating Voltage	728~949V
Rated Charging Power	0.5P
Rated Discharging Power	0.5P
Safety	
Fire Suppression System	Gas-Suppression Fire Extinguishing System
PCS Data	
Rated Power	125kW
Please refer to the PCS section for more details.	
General	
Dimensions(W x D x H)	1300 x 1550 x2090mm
Weight	≤ 2600 kg
Operating Temperature	-25°C - +55°C
Storage Temperature	-30°C - +60°C
Relative Humidity	15%~90%(Non-condensing)
IP Rating	IP54
Cooling Method	Liquid cooling(Battery)
Operating Altitude	≤3000m
Communication	CAN, RS485, Dry contact
Compliance	IEC/EN 62619, IEC/EN 61000, UN38.3, MSDS

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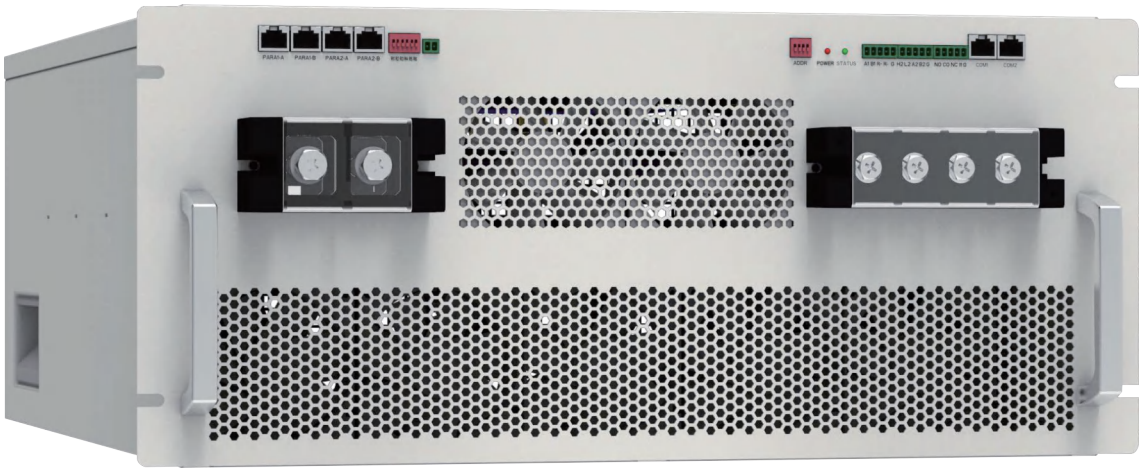
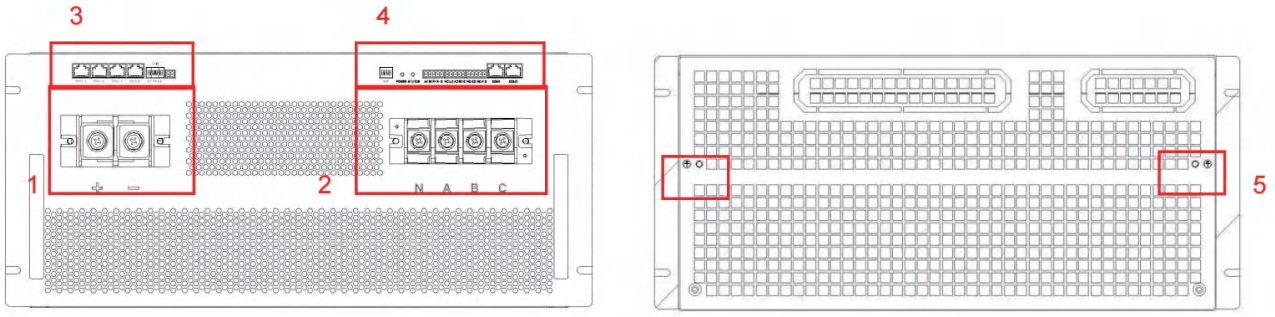
Power Conversion System





1. DC interface 2. AC interface 3. Parallel interface 4. Signal interface 5. grounding interface

Product Characteristics

- Adopting a three-level topology, the maximum efficiency can reach 99% and the power quality is better.
- Standard rack-mounted modular design, flexible configuration, convenient maintenance, and easy expansion.
- It supports constant current, constant power, MPPT, AC voltage source control, and has a black start function.
- Adopting a standard rack-mounted modular design, it is flexible in configuration, convenient in maintenance, and easy to expand.
- Compatible with three-phase four-wire systems, it can meet both off-grid and grid-connected requirements.
- Adopting patented harmonic suppression technology, it is suitable for diversified scenarios such as industrial parks and microgrids.
- It is suitable for 52s Pack and can meet various battery pack requirements.
- Modular design allows for easy parallel operation, facilitating the formation of 250kW, 500kW, and 1MW multi-cluster management solutions with convenient expansion.

PCS Technical Parameters

Model	LOL125AC-01M
Rated power	125kW
Max. power	137kW
DC operating voltage range	580~1000V (3W+PE)；680~1000V (3W+N+PE)
DC side full load voltage range	625~1000V (3W+PE)；680~1000V (3W+N+PE)
Max. direct current	200A
Rated AC voltage	400Vac，3W+PE/3W+N+PE
Rated frequency	50/60Hz（±5Hz）
Rated AC current	180A
Overload capacity	110%, normal operation; 120%, 1 minute
Current distortion	< 3% (rated power)
Power Factor Adjustment Range	-1 leading to +1 lagging
Adapts battery	Lithium/Lead-acid/Photovoltaic module/DC busbar
Charging mode	BMS command/Tri-stag/MPPT
Mode of operation	Constant current, constant power, MPPT, AC voltage source
Max. efficiency	99%
Dimensions (W*D*H)	566（Mounting lug 650 not included）*680*245mm
Weight (approx.)	68kg
Isolation Mode	No isolation
Anti-corrosion grade	C3
Application environment protection level	Module built into outdoor cabinet IP55
Ingress Protection	IP20
Ambient temperature	-30˚C to +60˚C(derate above 45˚C)
Relative humidity	0 to 100% (no condensation)
Cooling mode	Intelligent air-cooled
Noise	＜70dB
Altitude	3000m (> 3000m reduction，Not recommended for use at altitudes above 4000m)
Communication interface	RS485/CAN2.0/Dry contact

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宗申动力 ZONSEN POWER × LITHIUMVALLEY
Factory Address：No. 11, Yinyang Road, Zhangyang Community, Zhangmutou Town, Dongguan
info@lithiumvalley.com www.lithiumvalley.com