

1000KW / 2150KWH

Integrated Energy Storage System



Features

- High efficiency LFP energy storage, long life design
- Wide-voltage photovoltaic compatibility, intelligent temperature control system
- Modularized design, easy to maintain and expand
- Multiple communication interfaces for remote monitoring and control



System Integration

The system has been commercialized, integrating energy storage batteries, energy storage converters, photovoltaic converters, energy management monitoring systems, power distribution systems, environmental control systems, and fire control systems. It can fully control the operation status and risks of the system.

Intelligent Dispatch

Real-time acquisition of local load power, photovoltaic power generation priority is self-generation and self-use, and surplus electricity storage. When the power generated by photovoltaic power generation is insufficient to provide local load, the battery storage is prioritized.

Environmental Protection

The protection level is IP54, which can perfectly cope with various types of weather in the outdoor environment.

Efficient Cooling

It adopts door-mounted embedded integrated air conditioning, which does not occupy cabinet space, improves the available space of outdoor cabinets, has better structural integrity at the top, and has good waterproof performance.

Convenient Management

The local control screen can achieve diversified functions such as system operation monitoring, energy management strategy development, equipment remote upgrading, etc.

Outdoor Cabinet Energy Storage System



Specifications

Model	ZECO-ESS2150(1075W/2150kWh)
DC Side Parameters	
Operating Voltage Range	680~1000V
Full load voltage range	680~1000V
Maximum DC current	200A*8
Adaptive Battery	Lithium Battery/lead acid/photovoltaic modules
Charging Mode	As per BMS command/Tri-Stage/MPPT
Operating mode	Constant current, constant power, MPPT, AC voltage source, DC voltage source
AC-side parameters (On-grid)	
Rated/Maximum AC Power	1000/1100kW
Rated AC current	180A*8
Rated AC voltage	400V, 3W+N+PE
THDI	<3% (Rated Power)
power factor	-1 ahead ~ +1 behind
AC-side parameters (Off-grid)	
Rated AC voltage	400V
Rated AC frequency	50/60Hz
THDU	<3% (Linear Load)
Overload capacity	110%, normal operation; 120%, 1 minute
General parameters	
Degree of protection	IP21 (Indoor)
Protective Class	/
Isolation mode	Transformer isolation
Shutdown self-discharge	<0.1% rated power (Without transformer)
Display	LCD
Relative humidity	0 ~ 95% (no condensation)
Noise	<78dB
Ambient temperature	-35℃ to +60℃ (derating above 45℃)
Cooling mode	Intelligent air-cooled
Altitude	3000m (> 3000m reduction)
Communication interface	Rs485 / CAN
Dimensions (W * D * H)	1200*1000*2100mm(PCS cabinet)
Weight (approx.)	3400kg