

250kW/500kWh Outdoor Cabinet 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-ESS500(250kW/500kWh)
Grid port	
Rated power	250kW
Max.power	275kW
Rated current	361A
Max.current	400A
Rated voltage	400Vac,3W+N+PE
Rated frequency	50Hz(±5Hz)
Photovoltaic(PV) port	
Max.PV input voltage	Minimum battery voltage -30V
Max.PV input power	250kW
MPPT quantity	1/5/10
General Parameters	
Degree of protection	IP55
Protective Class	/
Power Factor	-1leading to+1 lagging
THDU	<3%(Rated power)
Isolation mode	Transformer isolation
Shutdown self-discharge	<0.1%Rated Power(Without transformer)
Display	LCD
Relative humidity	0 ~ 95% (No condensation)
Noise	<78dB
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Ambient temperature	-25°C to +60°C(Derating above 45°C)
Cooling mode	Intelligent air-cooled
Altitude	3000m (> 2000m reduction)
BMS Communication	CAN
EMS Communication	Rs485 / CAN/Ethernet
Dimensions(W*D*H)	1300*1000*2300mm
Weight (approx.)	2150kg
Model	
5*100kWh	
Battery rated capacity	5* 100kWh
Battery rated voltage	844.8V
Battery voltage range	739.2V~950.4V
Battery type	Lithium iron phosphate battery (LFP)
Battery cell capacity	120Ah
Series of Battery	1P*24S*11S
Rated charging rate	1P
Degree of protection	IP55
Operating ambient temperature	-20~50°C
Storage Temperature	-40~50°C
Cooling mode	Air cooling
Altitude	3000m (>2000m reduction)
Dimensions (W*D*H)	1300*1030*2300mm
Weight (approx.)	1500kg