

# 50kW/100kWh 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.

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## Specifications

Model	ZECO-ESS100(50kW/100kWh)
Battery rated capacity	100kWh
Battery rated voltage	844.8V
Battery voltage range	739.2V~950.4V
Battery type	Lithium Iron Phosphate batery (LFP)
Battery cell capacity	120Ah
Series of Batery	1P*24S*11S
Maximum charge and discharge current	60A
Photovoltaic rated capacity	50kW
Photovoltaic voltage range	200~550V
Rated AC power	50kW
Rated AC current	72A
Rated AC voltage	400V,3W+N+PE/3W+PE
Rated AC frequency	50/60Hz
THDI	<3% (Rated power)
Power Factor	-1 leading to+1 lagging
THDU	<3%(Linear Load)
Degree of protection	IP54
Protective Class	/
Isolation mode	No-Isolation(A ding isolation transformer is optional)
Shutdown self-discharge	<100W (Without transformer)
Display	LCD
Relative humidity	0 ~ 95%(no condensation)
Noise	<78dB
Ambient temperature	-25°C to +60°C(with derating at temperatures above 45°C)
Cooling mode	Intelligent air-cooled
Altitude	3000m (> 3000m reduction)
Communication interface	CAN/Ethernet / 485
Size (W*D*H)	1300*1030*2100mm
Weight (approx.)	2150kg