

Commercial Energy Storage System



Features

- New Class A high-reliability lithium iron phosphate battery, green and environmentally friendly
- Intelligent integrated BMS, all-round protection strategy and fault detection
- Built-in fire extinguishing device, automatically deal with ultra-early warning thermal runaway status
- Bottom tripod design, standard cabinet for easy installation and easy maintenance
- Modular design, parallel expansion, flexible choice of voltage and capacity
- Large capacity, high charging and discharging efficiency, more than 6000 cycles



High cycle life

>8000 cycles @80% DoD for effectively lower total of ownership cost



Longer service life

Low maintenance batteries with stable chemistry.



Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



Better storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +45°C.



Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.



Function

Support parallel operation

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Specifications

Model Number	ZECO-ESS100	ZECO-ESS215
System Parameter	50kW/100kWh	100kW/215kWh
Cooling Method	Air-cooled	
Battery Parameters		
Rated Battery Capacity	100kWh	215kWh
Rated System Voltage	844.8V	768V
Battery Type	Lithium Iron Phosphate Battery (LFP)	
Cell Capacity	120Ah	280Ah
Connection Method	1P*24S*11S	IP*15S*16S
PV Parameters		
Max. PV Input Voltage	1000V	
Max. PV Power	100kW	200kW
MPPT Quantity	2/4	4/8
MPPT Voltage Range	200-850V	
AC Parameters		
Rated AC Power	50kW	100kW
Nominal AC Current Rating	72A	144A
Rated AC Voltage	400V, 3P+N+PE,50Hz	
Total Current Harmonic Distortion (THD)	<3% (Rated Power)	
Power Factor Adjustable Range	1 Ahead ~ +1 Behind	
General Parameters		
Protection Level	IP54	
Fire Protection System	Aerosols/perfluorohexanone/heptafluoropropane	
Isolation Method	Non-isolated (Optional Transformer)	
Operating Temperature	-25~60°C(Derating Above 45°C)	
Poster Height	RS485/CAN2.0/Ethernet/Dry contact	
Dimension (W*H*D)	1200*1000*2150mm	1800*1200*2300mm
Communication Mode	1750kg	2400kg
Certification		
Electric Safety	IEC62619/IEC62477/EN62477	
EMC (Electromagnetic Compatibility)	IEC61000/EN61000/CE	
Grid-connected And Islanded	IEC62116	
Energy Efficiency And The Environment	IEC61683/IEC60068	