

EC series AC energy storage converter



Product Features

- Advanced T-type three-level technology improves conversion efficiency and power quality
- 125kW modular design, combined with intelligent sleep technology, to achieve efficient energy storage conversion
- Complete battery management system, supporting battery access with different characteristics
- Friendly power grid adaptability, accept power grid dispatch and perform active and reactive power compensation
- Complete protection measures, with active fault monitoring and protection capabilities
- The faulty module is automatically separated, reducing system maintenance time



Modular design



3 level topology



Intelligent protection

Technical Parameters

Model	EC-0125	EC-0250
DC side parameters		
Maximum input voltage	1000V	1000V
Maximum DC current	200A	2x200A
Battery pack voltage range	500~850V	500~850V
No. of battery packs	1	2
Grid side parameters		
Rated AC power	125kW	250kW
Maximum AC power	137kW	275kW
Rated grid voltage	315V,3W+PE	315V,3W+PE
Grid voltage range	268~347V	268~347V
Maximum AC current	252A	504A
Rated grid frequency	50/60Hz	50/60Hz
Total harmonic distortion	<1.5%(>50%load)	<1.5%(>50%load)
Power factor	>0.99 (>20%load)	>0.99 (>20%load)
Power factor adjustable range	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging
System characteristics		
Isolation method	transformer less	
Maximum efficiency	99.0%	
Protection level	IP20 (IP21Optional)	
Working temperature	-30~+55°C	
Allowable humidity range	0~95% (No condensation)	
Altitude at full load	3000m	
Cooling method	Temperature control forced air cooling	
Communication Interface	RS485/CAN/Ethernet	
Mechanical parameters		
Dimensions (width/height/depth)	800x2000x700mm	1200x2000x700mm
Weight	400kg	670kg

A Circuit block diagram

