

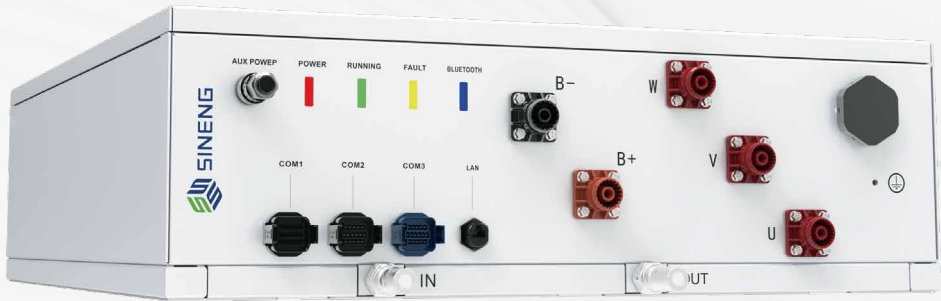
EH Series

Power Conversion System (250kW String PCS, 1500V)

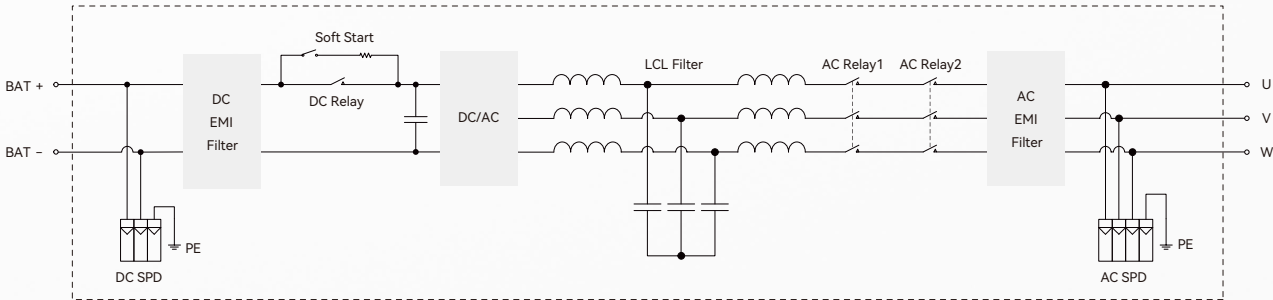
Features

- Charge/discharge each battery string independently
 - Modular design easy replacement
 - Compatible with 300+ Ah battery cell
- High efficiency up to 99%
 - Liquid cooling for better heat dissipation
 - Support grid forming and black start

Preliminary



Circuit Diagram



Model	EH-0250-HA-M
DC Parameters	
Max. DC voltage	1500V
Max. DC current	281A
Battery voltage range	1000~1500V
Number of DC input	1
AC parameters (On-Grid)	
AC output power	275kVA@45°C, 250kVA@50°C
Nominal AC voltage	690V,3W+PE
AC voltage range	607~759V (Adjustable)
Max. AC current	230A@45°C, 209A@50°C
Nominal grid frequency	50/60Hz
Harmonic (THDi)	<1.5% (100% load)
Power Factor	-1 ~ +1
AC parameters (Off-Grid)	
Nominal AC voltage	690V,3W+PE
AC voltage range	607~759V (Adjustable)
AC voltage distortion	<1.5% (100% linear load)
DC voltage component	<0.5% Un (Linear balance load)
Unbalanced load capacity	100% (Linear load)
Nominal grid frequency	50/60Hz
General Data	
Isolation mode	Transformerless
Max. efficiency	99%
European efficiency	98.5%
Ingress protection rating	IP66
Operating temperature range	-40~+60°C
Relative humidity	0~100% (non-condensing)
Max. altitude	5000m (>3000m derating)
Cooling method	Intelligent liquid cooling
Communication interface	RS485/CAN/Ethernet
Dimensions (W*D*H)	740×700×210mm
Weight	120kg