

EH Series

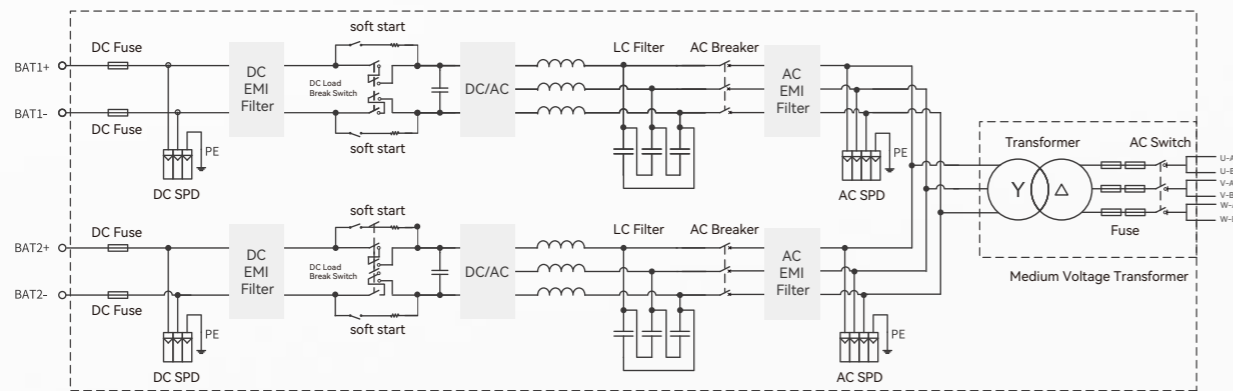
Turnkey Station With MV Transformer Integrated (Central PCS, 1500V)

Features

- PCS Max. efficiency up to 98.9%
- Full reactive power four-quadrant capability
- Support VSG function
- Millisecond-level Power response to EMS/SCADA
- NEMA TYPE 3R protection
- Black start ability
- Two DC branch inputs
- Integrated MV transformer and LV auxiliary power supply



Circuit Diagram



Model	EH-3450-HA-UD-US-34.5	EH-4000-HA-UD-US-34.5
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DC parameters		
Max. DC voltage	1500V	
Max. DC current	3872A	4490A
Battery voltage range	1000 ~ 1500V	
Number of DC inputs	2	

AC parameters (On-Grid)		
AC Output power	3795kVA@30°C, 3450kVA@45°C	4400kVA@30°C, 4000kVA@45°C
PCS Nominal AC voltage	690V, 3W+PE	
PCS AC voltage range	607~759V (Adjustable)	
PCS Max. AC current	3176A@30°C, 2886A@45°C	3682A@30°C, 3346A@45°C
Nominal grid frequency	60Hz	
Harmonic (THDi)	<1.5% (100% load)	
Power Factor	-1 ~ +1	

AC parameters (Off-Grid)		
PCS Nominal AC voltage	690V, 3W+PE	
PCS 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%	
Nominal grid frequency	60Hz	

Transformer		
Isolation mode	Oil-Immersed Transformer	
Transformer rated power	3795kVA@30°C, 3450kVA@45°C	4400kVA@30°C, 4000kVA@45°C
LV/MV voltage	0.69kV/34.5kV (11.8kV~34.5kV Optional)	0.69kV/34.5kV (13.8kV~34.5kV Optional)
Transformer vector group	Dy1 or Dy11	
Transformer cooling type	KNAN	
Oil type	Degradable oil	

General Data		
PCS Max. efficiency	98.90%	
PCS CEC efficiency	98.50%	
Ingress protection rating	TYPE 3R	
Operating temperature range	-40~+60°C (>45°C derating)	
Relative humidity	0~100% (no condensing)	
Max. altitude	1000m	
Cooling method	Forced air cooling	
Communication port	RS485/CAN/Ethernet/Bluetooth	
Dimensions (W*D*H)	6058×2438×2896mm	
Weight	17000kg	18000kg