

EH Series

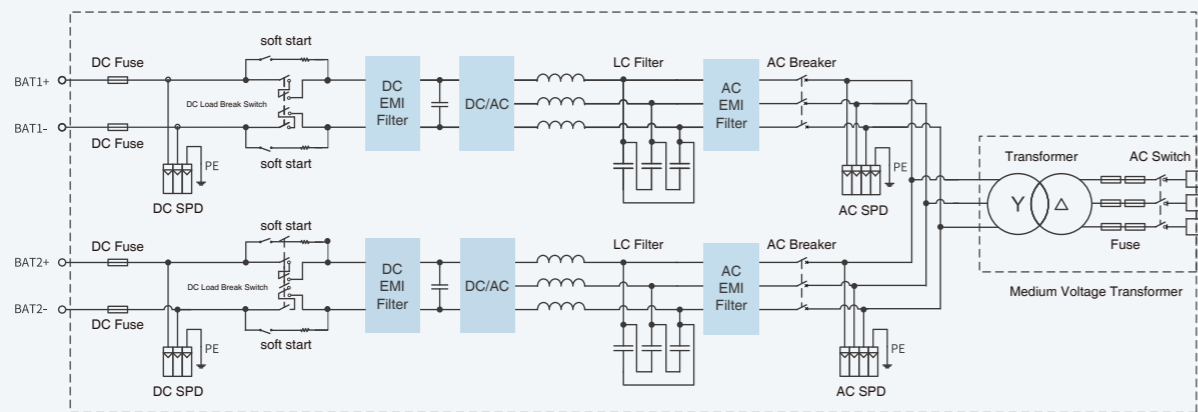
Turnkey Station With MV Transformer Integrated (Central PCS, 1500V)



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
- Designed for Desert Scenario with 50 C option

Circuit Diagram



Model	EH-3800-HC-UD-US-34.5	EH-4000-HC-UD-US-34.5
DC Parameters		
Max. DC voltage	1500V	1500V
Max. DC current	3872A	4490A
Battery voltage range	1000~1500V	1000~1500V
Number of DC inputs	2	2
AC parameters (On-Grid)		
AC Output power	3800kVA@40 C, 3800kVA@45 C, 3450kVA@50 C	4200kVA@40 C, 4000kVA@45 C, 3800kVA@50 C
PCS AC voltage range	607~759V (Adjustable)	
PCS Max. AC current	3180A@40 C, 3180A@45 C, 2886A@50 C	3514A@40 C, 3346A@45 C, 3180A@50 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	3800kVA@40 C, 3800kVA@45 C, 3450kVA@50 C	4200kVA@40 C, 4000kVA@45 C, 3800kVA@50 C
LV/MV voltage	0.69kV/34.5kV (11.8kV~34.5kV Optional)	0.69kV/34.5kV (13.8kV~34.5kV Optional)
Transformer vector	Dy1 or Dy11	
Transformer cooling type	ONAN (Optional: KNAN)	
Oil type	Mineral oil (PCB free) or degradable oil on request	
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	2000m	
Cooling method	Forced air cooling	
Communication port	RS485/CAN/Ethernet	
Dimensions (W*D*H)	6058×2438×2896mm	6058×2438×2896mm
Weight	15600kg	17000kg