

EH Series

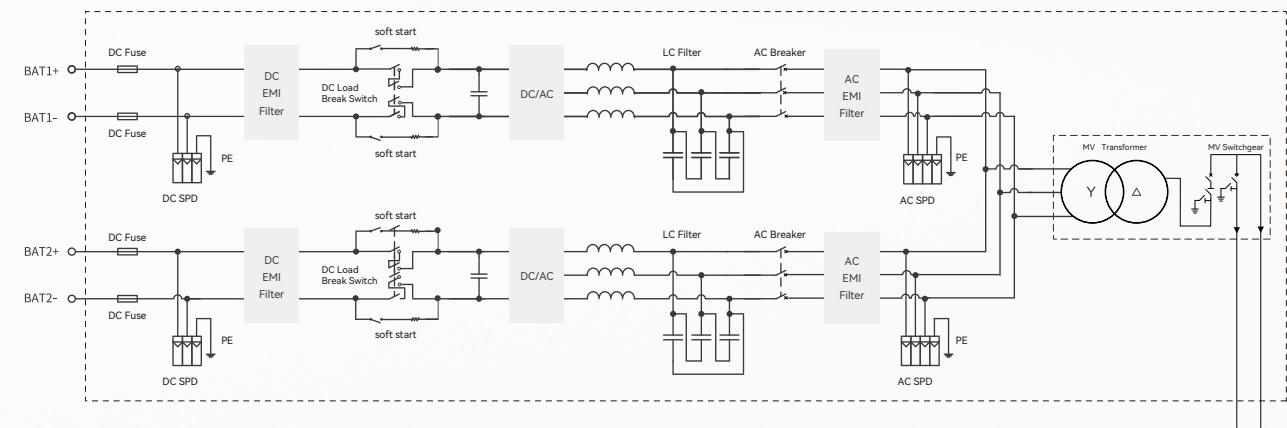
Turnkey Station With MV Transformer Integrated (Central PCS, 1500V)

Features

- PCS Max. efficiency up to 99%
- Full reactive power four-quadrant capability
- Support VSG function
- Millisecond-level power response to EMS/SCADA
- IP65 protection for PCS, IP54 for MV station
- Black start ability
- Two DC branch inputs
- Designed for desert scenario with 50°C option



Circuit Diagram



Model	EH-3450-HA-UD-35		EH-4000-HA-UD-35	
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 AC voltage range	607~759V (Adjustable)			
PCS Max. AC current	3174A		3680A	
PCS Max. AC current	3176A@30°C, 2886A@45°C		3682A@30°C, 3346A@45°C	
Nominal grid frequency	50/60Hz			
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	50/60Hz			
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/35kV (10kV~35kV Optional)			
Transformer vector	Dy11			
Transformer cooling type	ONAN (Optional: KNAN)			
Oil type	Mineral oil (PCB free) or degradable oil on request			
General Data				
PCS Max. efficiency	99%			
PCS European efficiency	98.5%			
Ingress protection rating	IP54			
Operating temperature range	-40~+60 °C (>45°C derating)			
Relative humidity	0~100% (no condensing)			
Max. altitude	5000m (>2000m derating)			
Cooling method	Forced air cooling			
Communication port	RS485/CAN/Ethernet/Bluetooth			
Dimensions (W*D*H)	6058×2438×2896mm			
Weight	17000kg		18000kg	