

EP-9600-HA-UD/20~35, EP-9400-HB-UD/20~35

MV Turnkey Solution for 1500V Utility PV Plant

More power generation

- Inverter Max. efficiency 99%, Euro efficiency 98.7%
- 1500Vdc PV system reduce power loss
- High DC/AC ratio up to 1.8

Low system cost

- Convenient for large block size PV plant
- Integrated MV transformer and switchgear
- Night SVG function optional

High reliability

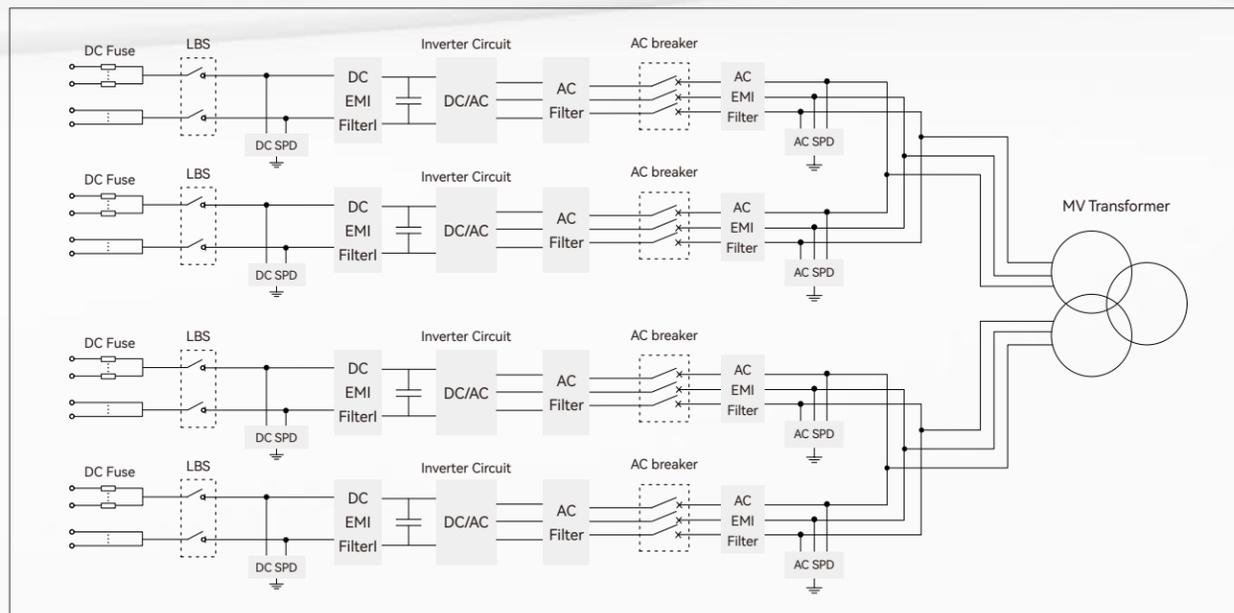
- Key components at front side, easy for maintenance
- Current sensor for each DC input, more reliable for monitoring and control

Grid friendly

- Adjustable reactive power
- Low harmonics and fast response for grid regulation



Circuit Diagram



Model	EP-9600-HA-UD/20~35	EP-9400-HB-UD/20~35
Input (DC)		
Max. PV input voltage	1500V	
MPP voltage range	915V~1500V	938V~1500V
Min. input voltage	915V	938V
Max. input current	4*3078A	4*3068A
Number of MPPT trackers	4	
Number of DC inputs	40~64	
Output (AC)		
Rated AC output power	4*2400kW	
Max. AC output power	4*2760kW	4*2820kW
AC voltage	20~35kV	
Rated grid frequency	50Hz/60Hz	
Grid frequency range	45~55Hz, 55~65H	
Output current harmonic (at nominal power)	< 3%	
DC current injection	<0.5% (nominal power)	
Power factor range	0.8 lagging to 0.8 leading	
Efficiency		
Max. efficiency	> 99% (inverter)	
EU efficiency	> 98.7% (inverter)	
Transformer		
DC input protection	Load break switch+fuse	
AC MV output protection	Load break switch/Circuit breaker	
DC/AC over voltage protection	Yes	
Grid monitoring	Yes	
Ground fault detection	Yes	
Anti-PID function	Optional	
Night SVG function	Optional	
General Data		
LV/MV Voltage	0.63/20~35kV	0.66/20~35kV
Weight	40t	
Protection level	Inverter: IP65, Others: IP54	
Temperature	-30°C ~ +60°C	
Humidity (non condensing)	0~100%	
Max. operating altitude	> 2000m, transformer need to adjust	
Cooling method	Temperature controlled forced air cooling (inverter)	
Communication port	RS485/Ethernet	