

EP-6250-HC-UD/10~35, EP-6800-HA-UD/10~35

MV Turnkey Solution for 1500V Utility PV Plant

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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
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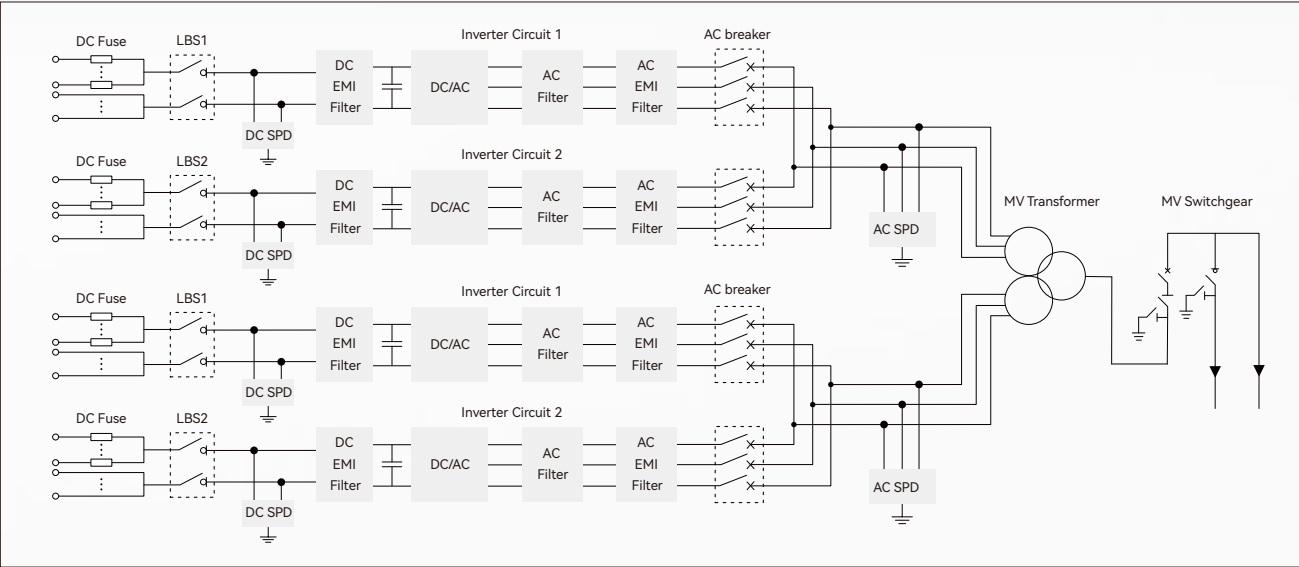
Low system cost
 - Convenient for large block size PV plant
 - Integrated MV transformer and switchgear
 - Night SVG function optional
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High reliability
 - Capacitor life prediction technology
 - Key components at front side, easy for maintenance
 - Current sensor for each DC input, more reliable for monitoring and control
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Grid friendly
 - Adjustable reactive power
 - Low harmonics and fast response for grid regulation



Circuit Diagram



Model	EP-6250-HC-UD/10~35		EP-6800-HA-UD/10~35	
Input (DC)				
Max. PV input voltage			1500V	
Max. input current	4191A*2		4075A*2	
MPP voltage range for nominal power	875~1300V		900~1300V	
Number of MPPT trackers			4	
Max. Number of DC inputs			22*2	
Output (AC)				
AC output power	2*3125kVA@50°C/2*3594kVA@25°C		2*3400kVA@45°C/2*3594kVA@25°C	
AC voltage range			10~35kV	
Rated grid frequency/range			50 Hz/45~55 Hz, 60Hz/55~65 Hz	
Output current harmonic (at nominal power)			<3%	
DC current injection			<0.5% In	
Power factor at nominal power/range			>0.99/0.8 lagging to 0.8 leading	
Protection				
DC input protection			Load break switch+fuse	
AC output protection			Circuit breaker	
AC MV output protection			Circuit breaker	
Overvoltage protection			DC Type II/AC Type II	
Leakage current monitoring			Yes	
Grid monitoring/Ground fault monitoring			Yes/Yes	
Insulation monitoring			Yes	
Overheat protection			Yes	
Night SVG function			Optional	
Anti-PID function			Optional	
Efficiency				
Inverter max. efficiency			99.0%	
Inverter EU efficiency			98.7%	
Transformer				
Transformer rated power	6250kVA		6800kVA	
Transformer max. power	7188kVA		7188kVA	
LV/MV Voltage	0.6-0.6/10~35kV		0.63-0.63/10~35kV	
Transformer Vector			Dy11y11	
Transformer cooling type			ONAN (Oil Natural Air Natural)	
General Data				
Auxiliary power supply			Standard: 5kVA, Optional: max. 40kVA	
Protection level			Inverter: IP65, Others: IP54	
Temperature			-30 ~ + 60°C	
Allowed humidity (non condensing)			0-95%	
Cooling method			Temperature controlled forced air cooling	
Max. operating altitude			2000m (standard) />2000m (optional)	
Display			Touch screen	
Communication port			RS485/Ethernet, Optional: optical fiber	
Certificates and approvals (more available on request)			CE,IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC61000,IEC60076,IEC62271	
Dimensions (W×H×D)			12192×2896×2438mm	
Weight			28t	