

EP-4400-HB-UD/10~35

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

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

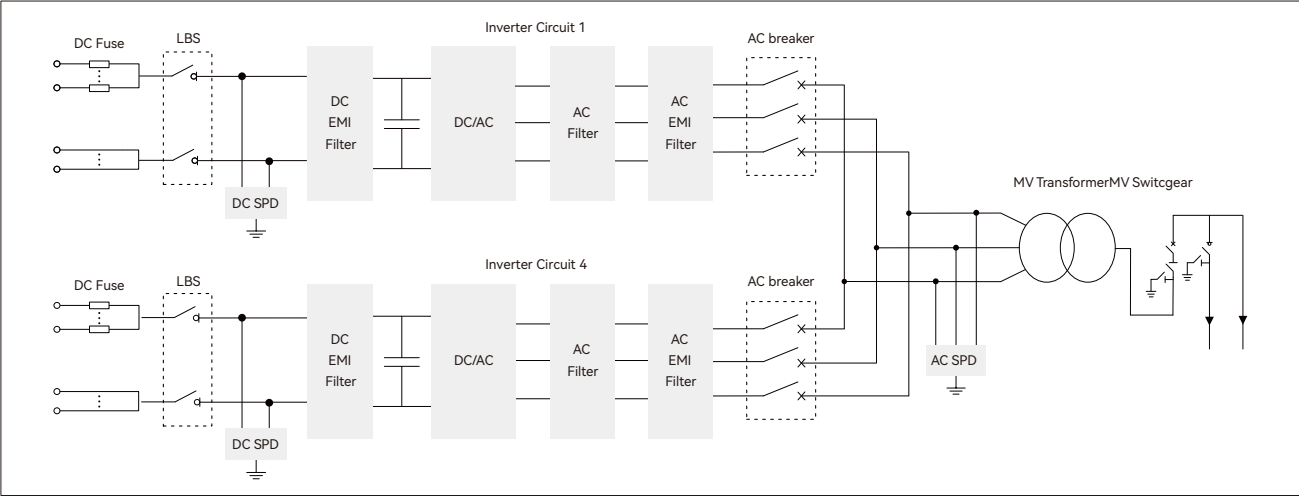


Grid friendly

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



Circuit Diagram



Model		EP-4400-HB-UD/10~35
Input (DC)		
Max. PV input voltage		1500V
Max. input current		5671A
MPP voltage range for nominal power		950~1300V
Number of MPPT trackers		4
Max. Number of DC inputs		20 (Max. 32)
Output (AC)		
AC output power		4400kVA@51°C/5280kVA@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		99.02%
Inverter EU efficiency		98.8%
Transformer		
Transformer rated power		4400kVA
Transformer max. power		5280kVA
LV/MV Voltage		0.66/10~35kV
Transformer Vector		Dy11
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		Standard: LED indicator, Bluetooth+APP; Optional: 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)		6058×2896×2438mm
Weight		20t