

# DC1500V High Power String Inverter



**High Efficiency**  
 Maximum efficiency 99.01%, Europe efficiency 98.52%.  
 12 MPPTs.  
 Supporting high-power bifacial modules.  
 High-precision intelligent string detection.

**Reliable**  
 Built-in AC and DC SPD protection.  
 No fuse, IP66 protection.  
 Intelligent fan cooling, low temperature rising and long life.

**Friendly**  
 Support PLC and save construction cost.  
 Support IV diagnosis.  
 Night SVG function.  
 Support DC 2 in 1 connection.

## Technical Parameters

Model		hopeSunHV 250KTL	
DC Input	Max. DC Voltage	1500V	
	MPPT Voltage Range	500V~1500V	
	MPPT Voltage Range Full Load	820V~1320V	
	Max. Input Current of Each MPPT	30A / 40A	
	Max. short-circuit current	50A / 60A	
	Number of DC Inputs / MPPT	24 / 12 / 18 / 9	
AC Output	AC Output Power	225kW@50 / 235kW@40 / 250kW@30	
	Max. Active Power (cosθ=1)	250kW	
	Rated Output Voltage	800V	
	Operating Voltage Range	680V~800V	
	Max. Output Current	180.4A	
	Rated Grid Frequency	50Hz / 60Hz	
	Power Factor	0.8 (Leading)~0.8 (Lagging)	
	THD	<3%	
	System Parameters	Max. Efficiency	99.01% / 98.52%
		MPPT Tracking Efficiency	Steady>99.9%, Dynamic>99.0%
AC/DC SPD		Yes	
Anti-Islanding Protection		Yes	
Insulation Impedance Detection		Yes	
Residual Leakage Current Detection		Yes	
PV String Fault Detection		Yes	
Output Overcurrent Protection		Yes	
Protection Degree		IP66	
Operating Temperature Range		-25 ~+60	
Cooling System		Smart Air Cooling	
Standby Power Consumption		<5W	
Topology		Transformerless	
Operating Altitude		5000m (Derating above 4000m)	
Display		LED Indicator	
Communication		RS485 / PCL	
Certification		IEC61683 / IEC62109 / IEC61000 / IEC62116 / IEC61727 / CQC / CGC	
Mechanical Parameters		Dimensions (W*H*D)	1000*727*317mm
	Weight	≤105kg	

## Topological Graph

