

HSNV125/150K -G01



FEATURES



Efficient Power Generation

- 6 MPPTs is adaptable to complex environment, maximizes power generation
- MPPT current of 65A, fully compatible with 180/210 modules
- Supports full-load operation at 45°C , minimizes power generation losses
- Supports PID recovery function, enhances system power generation



Economical and Eco-friendly

- Supports Wi-Fi and PLC communication, ensures low construction costs
- Supports up to 400mm² of aluminum wire connections, reduces cable costs
- Higher capacity ratio, reduces LCOE (Levelized Cost of Electricity)



Safe and Reliable

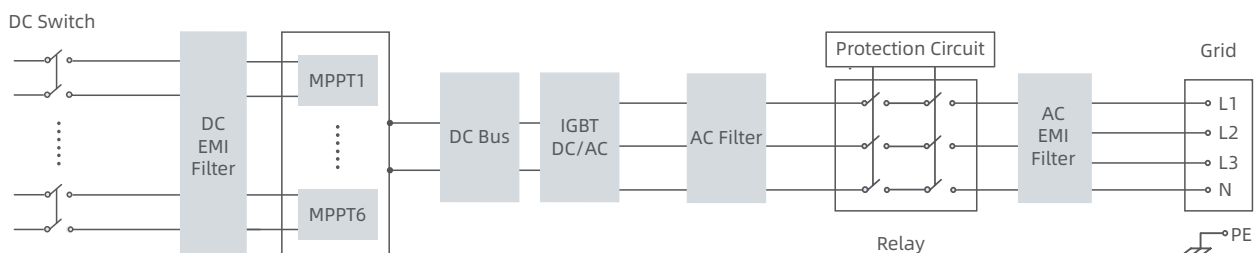
- IP66 ingress protection, a strong environmental adaptability
- Built-in AC/DC SPD for comprehensive lightning protection
- Equipped with intelligent DC disconnection functions for higher safety
- Featuring temperature detection for both AC and DC terminals, enhances safety and reliability



Smart and User-friendly

- High-precision intelligent string detection, smart IV curve scanning, and accurate fault identification
- Equipped with HVRT/LVRT function, strong adaptability to weak grid with SCR technology

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSNV125K-G01	HSNV150K-G01
DC Input		
Max. Input Voltage	1100 V	
Starting Voltage	200 V	
MPPT Voltage Range	200~1000 V	
MPPT Range Full Load	550~850 V	
Max. Input Current Per MPPT	65 A	
Max. Short-circuit Current Per MPPT	97.5 A	
Max. Number of DC Input	4 × 6	
Number of MPPTs	6	
AC Output		
Rated Output Power	125 kW	150 kW
Max. Output Apparent Power	137.5 kVA	165.0 kVA
Rated Output Voltage	400 V (3W + N + PE)	
Rated Voltage Range	300~520 V	
Rated Output Current	180.4 A	216.5 A
Max. Output Current	198.5 A	238.2 A
Rated Frequency	50 Hz / 60 Hz	
Power Factor	0.8 leading~0.8 lagging	
Harmonic (THDi)	<3%	
Efficiency		
Max. Efficiency	98.60%	98.80%
European Efficiency	98.30%	
Protection		
Surge Protection	DC type II / AC type II	
Insulation Impedance Detection	Yes	
Residual Leakage Current Detection	Yes	
PV String Connection Detection	Yes	
PV Reverse Polarity Protection	Yes	
Anti-islanding Protection	Yes	
Zero Export Function	Yes	
Output Overcurrent Protection	Yes	
Output Short-circuit Protection	Yes	
Arc Fault Circuit Interrupter (AFCI)	Yes	
PID	Yes	
DC Switch	Yes	
Optional	I/V curve scanning	
General Parameters		
Dimensions (W × H × D)	1132 × 847 × 385 mm	
Weight	≤110 kg	
Ingress Protection	IP66	
Operating Temperature	-40~+60°C (>45°C derating)	
Cooling System	Smart air cooling	
Anti-corrosion	C5 (optional)	
Storage Temperature	-40~+70°C	
Humidity	0~100% (non-condensation)	
Topology	Transformerless	
Operating Altitude	4000 m	
Display	LED indicator + APP	
Communication	RS485 / Wi-Fi / PLC	
DC Connection Type	DC connector (4~6 mm ²)	
AC Connection Type	OT / DT / DTL terminal (recommend 95~240 mm ² , max. 400 mm ²)	

