

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



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



Economical and Eco-friendly

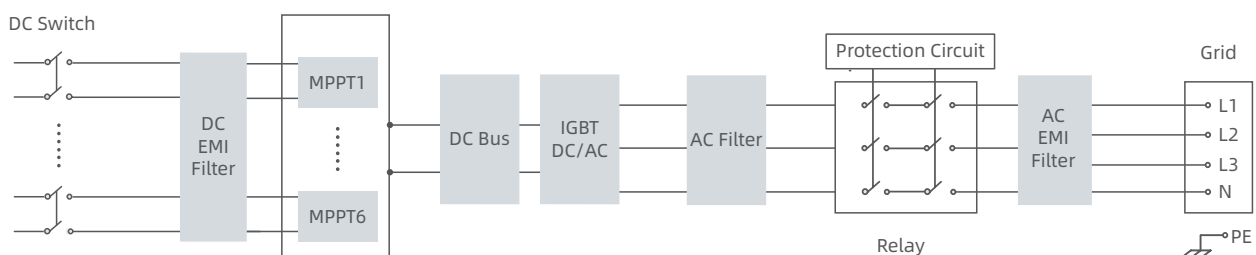
- Supports Wi-Fi and PLC communication, ensures low construction costs
- Supports up to 400mm² of aluminum wire connections, reduces cable costs
- Higher capacity ratio, reduces LCOE (Levelized Cost of Electricity)



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 (3P + 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	Smart I/V curve diagnosis			
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 mm²)			
AC Connection Type	OT / DT terminal (≤400 mm²)			

