HOPEWIND

GREEN C&I SOLUTION

PV Grid-tied Inverter

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℃ , minimizes power generation losses
- Supports PID recovery function, enhances system power genration

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

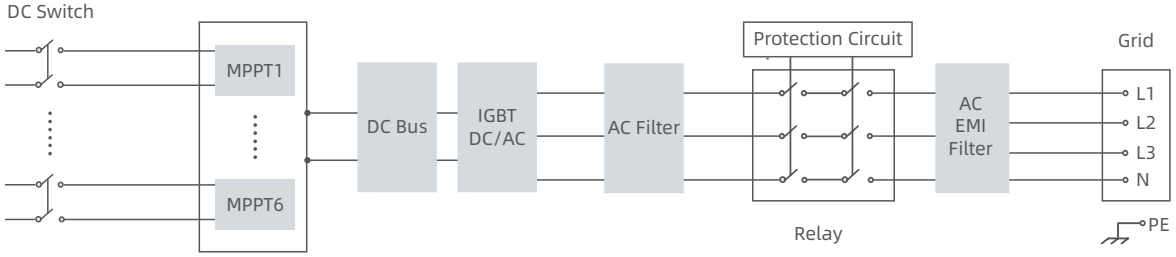
Economical and Eco-friendly

- Supports Wi-Fi and PLC communication, ensures low construction costs
- Supports up to 400mm^2 of aluminum wire connections, reduces cable costs
- Higher capacity ratio, redues 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



Shenzhen Hopewind Electric Co., Ltd. All rights reserved. Information may be subject to change without notice.

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	
DC&AC Terminal Temperature Detection	Yes	
PV Reverse Polarity Protection	Yes	
Anti-islanding Protection	Yes	
Zero Export Function	Yes	
Overcurrent & Short-circuit Protection	Yes	
Arc Fault Circuit Interrupter (AFCI)	Yes	
I/V Curve Scanning	Yes	
SVG & PID	Yes	
DC Switch	Yes	
Optional	RSD (rapid-shutdown device)	
General Parameters		
Dimensions (W × H × D)	1132 × 847 × 385 mm	
Weight	≤110 kg	
Ingress Protection	IP66	
Operating Temperature	-40~+60℃ (>45℃ derating)	
Cooling System	Smart air cooling	
Anti-corrosion	C5 (optional)	
Storage Temperature	-40~+70℃	
Humidity	0~100% (non-condensation)	
Topology	Transformerless	
Operating Altitude	4000 m	
Display	LED indicator + APP	
Communication	Wi-Fi / RS485 / 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)	

Shenzhen Hopewind Electric Co., Ltd. All rights reserved. Information may be subject to change without notice.