

HSNV60/100/ 110K-G03



FEATURES



Efficient Power Generation

- 4 MPPTs with Max. efficiency of 98.70%
- MPPT current of 65A, fully compatible with 180/210 modules
- Wide temperature range, supports full-load operation at 45°C
- Supports PID recovery function, enhances system power generation



Safe and Reliable

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



Smart and User-friendly

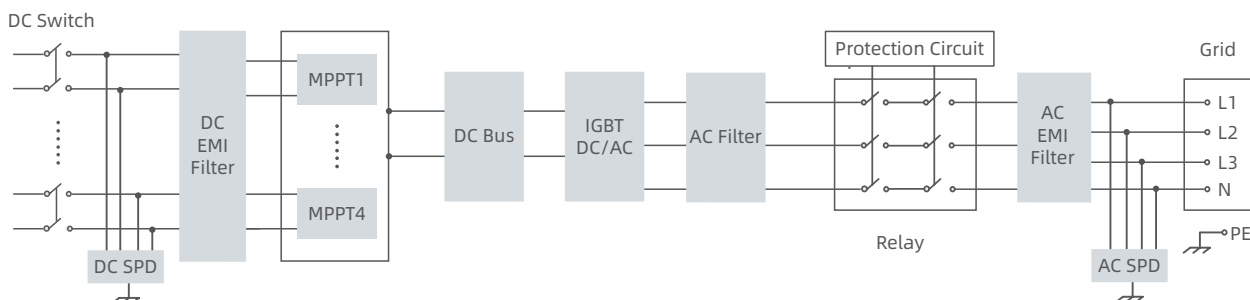
- Smart air cooling design to ensure stable system operation
- With active reactive power regulation, zero-voltage ride-through function
- AC/DC redundant design, 24-hour real-time monitoring



Economical and Eco-friendly

- Dual independent 485 communication, support multi-platform independent monitoring
- Supports up to 240mm² of aluminum wire connections, reduces cable costs
- Integrated tracking power supply and communication port for lower system cost

TOPOLOGICAL GRAPH



PARAMETERS

Model	HSNV60K-G03		HSNV100K-G03	HSNV110K-G03
DC Input				
Max. Input Voltage	1100 V			
Starting Voltage	200 V			
MPPT Voltage Range	200~1000 V			
Max. Current Per MPPT	65 A			
Max. Short-circuit Current Per MPPT	100 A			
Number of DC Inputs	4 × 3	4 × 4		
Number of MPP Trackers	4			
AC Output				
Rated Output Power	60 kW	100 kW	110 kW	
Max. Output Power	66 kW	110 kW	121 kW	
Rated Output Voltage	230 V / 400 V (3W + N + PE)			
Operating Voltage Range	300~500 V			
Rated Output Current	86.6 A	144.3 A	158.8 A	
Max. Output Current	95.3 A	158.8 A	174.7 A	
Rated Grid Frequency	50 Hz / 60 Hz			
Power Factor	>0.99 (0.8 leading~0.8 lagging)			
Harmonic (THDi)	<3% (at rated power)			
Efficiency				
Max. Efficiency	98.70%			
European Efficiency	98.40%			
Protection				
Surge Protection	DC type II / AC type II			
PV Reverse Polarity Protection	Yes			
Insulation Impedance Detection	Yes			
Residual Leakage Current Detection	Yes			
Output Overcurrent Protection	Yes			
Anti-islanding Protection	Yes			
DC Switch Automatic Trip	Yes			
Zero Export Function	Yes			
PV String Connection Detection	Yes			
DC&AC Terminal Temperature Detection	Yes			
Arc Fault Circuit Interrupter (AFCI)	Yes			
PID Recovery	Yes			
I/V Curve Scanning*	Yes			
Optional	Rapid Shutdown (RSD, External)			
General Parameters				
Dimensions (W × H × D)	953 × 657 × 384 mm			
Weight	≤76 kg			
Ingress Protection	IP66			
Operating Temperature Range	-25~+60℃			
Cooling System	Smart air cooling			
Anti-corrosion	C4 (C5 optional)			
Topology	Transformerless			
Operating Altitude	4000 m (>3000 m derating)			
Display	LED, Wi-Fi + APP			
Communication	RS485 / Wi-Fi / PLC (optional)			
DC Connection Type	DC connector (4~6 mm²)			
AC Connection Type	OT / DT / DTL terminal (≤240 mm²)			
Standard Compliance (More Available Upon Request)				
Certification	IEC 62109, IEC 61000, IEC 62920, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549-1, EN 50549-2			

Note: The I/V curve scanning function needs to be used with hopeCloud platform.

