

HSNV30K/ 45K-L-G01



FEATURES



Efficient

- Multi-MPPT with Max. efficiency of 98.60%
- Up to 20A of MPPT current input to support 210mm & bifacial PV modules



User Friendly

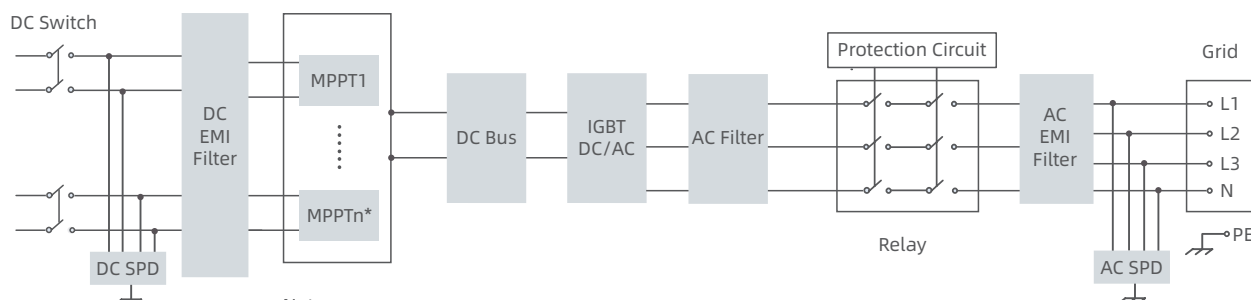
- Built-in zero export function interface
- Supports country grid code preset
- 24/7 monitoring & remote firmware upgrade
- Near-end commissioning via APP



Reliable

- Highly precise & intelligent string detection
- Built-in SPD for surge protection & AFCI function
- Wide AC voltage range for unstable grid

TOPOLOGICAL GRAPH



Note:

$n^* = 2$: HSNV30K-L-G01; $n^* = 4$: HSNV45K-L-G01.



PARAMETERS

Model	HSNV30K-L-G01		HSNV45K-L-G01	
DC Input				
Max. Input Voltage	1100 V			
Starting Voltage	180 V			
MPPT Voltage Range	200~1000 V			
Max. Input Current Per MPPT	60 A / 60 A		45 A / 45 A / 45 A / 45 A	
Max. Short-circuit Current	90 A / 90 A		60 A / 60 A / 60 A / 60 A	
Number of DC Inputs	5 / 4		4 / 3 / 3 / 4	
Number of MPP Trackers	2		4	
AC Output				
Rated Output Power	30 kW		45 kW	
Max. Output Power	30 kW		45 kW	
Rated Output Voltage	220 V (3P + N + PE)			
Operating Voltage Range	165~286 V			
Rated Output Current	78.7 A		118 A	
Max. Output Current	78.7 A		118 A	
Rated Grid Frequency	60 Hz			
Power Factor	0.8 leading~0.8 lagging			
Harmonic (THDi)	<3% (at rated power)			
Efficiency				
Max. Efficiency	98.60%		98.50%	
European Efficiency	98.30%		98.20%	
Protection				
PV Reverse Polarity Protection	Yes			
Insulation Impedance Detection	Yes			
Residual Leakage Current Detection	Yes			
Output Overcurrent Protection	Yes			
Anti-Islanding Protection	Yes			
DC Surge Protection	Type II			
AC Surge Protection	Type II			
Zero Export Function	Yes			
PV String Monitoring	Yes			
Arc Fault Circuit Interrupter (AFCI)	Yes			
DC Switch	Yes			
General Parameters				
Dimensions (W × H × D)	520 × 520 × 265 mm		705 × 650 × 285 mm	
Weight	≤55 kg		≤80 kg	
Ingress Protection	IP65			
Operating Temperature	-40~+60°C			
Cooling System	Smart air cooling			
Topology	Transformerless			
Operating Altitude	4000 m (>3000 m derating)			
Display	LED, WLAN + APP			
Communication	RS485 / Wi-Fi			
DC Connection Type	MC4 (4~6 mm²)			
AC Connection Type	OT / DT terminal			
Standard Compliance (More Available Upon Request)				
Certification	IEC 62109, IEC 61000, IEC 61727, IEC 62116, IEC 60068, IEC 61683, G99, G100, Inmetro 140, EN 50549-1, EN 50549-2, VDE 4105, VDE 4110, VDE 4120, VDE 0126-VFR, NC RfG PTPIREE typeA/B			

