

**HOPEWIND**

GREEN C&I SOLUTION

PV Grid-tied Inverter

# HSNV100/110K -G01



## FEATURES



### Efficient

- 4 MPPTs with Max. efficiency of 98.60%
- 110% AC overloading
- Up to 20A of MPPT current input to support 210mm & bifacial PV modules



### Reliable

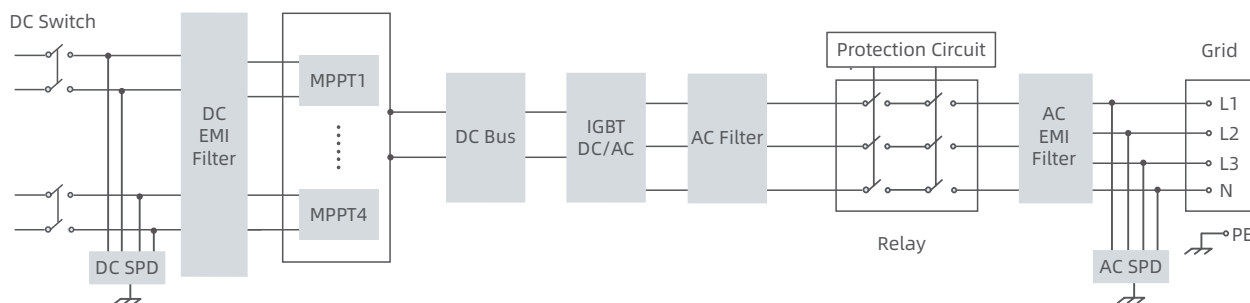
- High precisely & intelligent string detection
- Built-in SPD for surge protection & AFCI function
- Wide AC voltage range for unstable grid
- Built-in PID recovery module (optional)



### User Friendly

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

## TOPOLOGICAL GRAPH



# PARAMETERS

| Model                                             | HSNV100K-G01                                                                                                           |  | HSNV110K-G01 |  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
| DC Input                                          |                                                                                                                        |  |              |  |
| Max. Input Voltage                                | 1100 V                                                                                                                 |  |              |  |
| Starting Voltage                                  | 200 V                                                                                                                  |  |              |  |
| MPPT Voltage Range                                | 200~1000 V                                                                                                             |  |              |  |
| Max. Input Current Per MPPT                       | 65 A / 65 A / 65 A / 65 A                                                                                              |  |              |  |
| Max. Short-circuit Current                        | 100 A / 100 A / 100 A / 100 A                                                                                          |  |              |  |
| Number of DC Inputs                               | 5 / 5 / 5 / 5                                                                                                          |  |              |  |
| Number of MPP Trackers                            | 4                                                                                                                      |  |              |  |
| AC Output                                         |                                                                                                                        |  |              |  |
| Rated Output Power                                | 100 kW                                                                                                                 |  | 110 kW       |  |
| Max. Output Power                                 | 110 kW                                                                                                                 |  | 121 kW       |  |
| Rated Output Voltage                              | 230 V / 400 V (3P + N + PE)                                                                                            |  |              |  |
| Operating Voltage Range                           | 300~520 V                                                                                                              |  |              |  |
| Rated Output Current                              | 144.3 A                                                                                                                |  | 158.8 A      |  |
| Max. Output Current                               | 158.8 A                                                                                                                |  | 174.7 A      |  |
| Rated Grid Frequency                              | 50 Hz / 60 Hz                                                                                                          |  |              |  |
| Grid Frequency Range                              | 45~55 Hz / 55~65 Hz                                                                                                    |  |              |  |
| Power Factor                                      | >0.99 (0.8 leading~0.8 lagging)                                                                                        |  |              |  |
| Harmonic (THDi)                                   | <3% (at rated power)                                                                                                   |  |              |  |
| Efficiency                                        |                                                                                                                        |  |              |  |
| Max. Efficiency                                   | 98.60%                                                                                                                 |  |              |  |
| European Efficiency                               | 98.30%                                                                                                                 |  |              |  |
| 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                                                                                                                    |  |              |  |
| Zero Export Function                              | Yes                                                                                                                    |  |              |  |
| PV String Connection Detection                    | Yes                                                                                                                    |  |              |  |
| Arc Fault Circuit Interrupter (AFCI)              | Yes                                                                                                                    |  |              |  |
| DC Switch                                         | Yes                                                                                                                    |  |              |  |
| Optional                                          | PID recovery, I/V curve scanning                                                                                       |  |              |  |
| General Parameters                                |                                                                                                                        |  |              |  |
| Dimensions (W × H × D)                            | 890 × 814 × 343 mm                                                                                                     |  |              |  |
| Weight                                            | ≤85 kg                                                                                                                 |  |              |  |
| Ingress Protection                                | IP65                                                                                                                   |  |              |  |
| Operating Temperature Range                       | -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                                | DC connector (4~6 mm <sup>2</sup> )                                                                                    |  |              |  |
| 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, EN 50549-1, EN 50549-2, VDE 4105, VDE 4110, VDE 4120 |  |              |  |

