

**HOPEWIND**

GREEN UTILITY SOLUTION

PV Grid-tied Inverter

**HSHV320/330/  
350/385K  
-G02**



**PRELIMINARY**

## FEATURES



### Higher Performance

- 65A MPPT current, compatible with all types modules
- Full power operation at high temperature of 45°C (385K@40°C)
- Advanced SIC design, better efficiency & life time



### More Reliable

- IP66 & C5 anti-corrosive for harsh environment
- Low SCR, compatible with weak grid situations
- AFCI, DC&AC temperature protection with smart DC switch
- Explosion relief valve for on-site personal safety



### Lower Cost

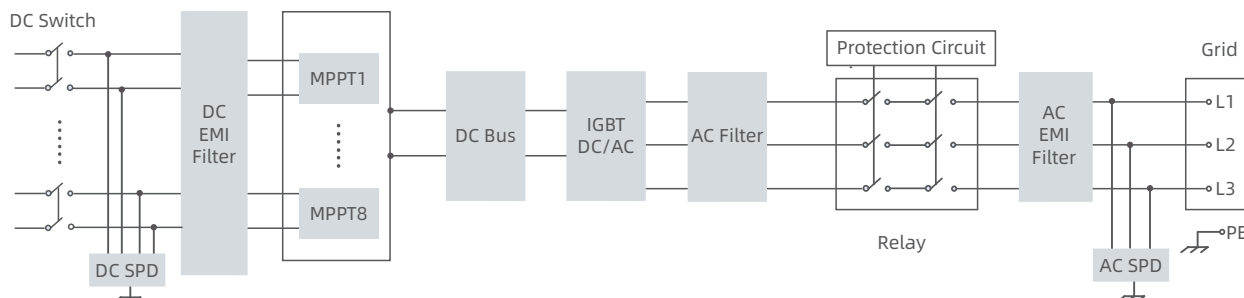
- Compatible with Aluminium cable of AC-side
- PLC communication to reduce wiring costs
- PID recovery & SVG



### Convenient O&M

- Integrated with Aux. switch, initial debugging at any time
- 24/7 continuously monitoring
- Fault waveform recording on hopeCloud
- Smart IV curve diagnosis

## TOPOLOGICAL GRAPH



# PARAMETERS

| Model                              | HSHV320K-G02                    |  | HSHV330K-G02 |  | HSHV350K-G02 |  | HSHV385K-G02              |  |
|------------------------------------|---------------------------------|--|--------------|--|--------------|--|---------------------------|--|
| DC Input                           |                                 |  |              |  |              |  |                           |  |
| Max. Input Voltage                 | 1500 V                          |  |              |  |              |  |                           |  |
| Starting Voltage                   | 550 V                           |  |              |  |              |  |                           |  |
| MPPT Voltage Range                 | 500~1500 V                      |  |              |  |              |  |                           |  |
| MPPT Range Full Load               | 960~1300 V                      |  |              |  |              |  |                           |  |
| Max. Input Current Per MPPT        | 65 A                            |  |              |  |              |  |                           |  |
| Max. Short-circuit Current         | 97.5 A                          |  |              |  |              |  |                           |  |
| Number of DC Inputs                | 8 × 4                           |  |              |  |              |  |                           |  |
| Number of MPP Trackers             | 8                               |  |              |  |              |  |                           |  |
| AC Output                          |                                 |  |              |  |              |  |                           |  |
| Rated Output Power                 | 320 kW                          |  | 330 kW       |  | 350 kW       |  | 385 kW                    |  |
| Max. Output Power                  | 320 kW                          |  | 330 kW       |  | 350 kW       |  | 385 kW                    |  |
| Rated Output Voltage               | 800 V (3P + PE)                 |  |              |  |              |  |                           |  |
| Operating Voltage Range            | 640~920 V                       |  |              |  |              |  |                           |  |
| Rated Output Current               | 230.9 A                         |  | 238.2 A      |  | 252.6 A      |  | 277.9 A                   |  |
| Max. Output Current                | 230.9 A                         |  | 238.2 A      |  | 252.6 A      |  | 277.9 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                    | 99.01%                          |  |              |  |              |  |                           |  |
| European Efficiency                | 98.70%                          |  |              |  |              |  |                           |  |
| 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                             |  |              |  |              |  |                           |  |
| Output Overcurrent Protection      | Yes                             |  |              |  |              |  |                           |  |
| DC Switch                          | Yes                             |  |              |  |              |  |                           |  |
| PID Recovery                       | Yes                             |  |              |  |              |  |                           |  |
| SVG Function                       | Yes                             |  |              |  |              |  |                           |  |
| Optional                           | AFCI, smart IV curve diagnosis  |  |              |  |              |  |                           |  |
| General Parameters                 |                                 |  |              |  |              |  |                           |  |
| Dimensions (W × H × D)             | 1208 × 967 × 396 mm             |  |              |  |              |  |                           |  |
| Weight                             | 155 kg                          |  |              |  |              |  |                           |  |
| Protection Degree                  | IP66                            |  |              |  |              |  |                           |  |
| Operating Temperature Range        | -30~+60℃ <sup>①</sup>           |  |              |  |              |  |                           |  |
| Cooling System                     | Smart air cooling               |  |              |  |              |  |                           |  |
| Topology                           | Transformerless                 |  |              |  |              |  |                           |  |
| Operating Altitude                 | 4000 m (>3000 m derating)       |  |              |  |              |  | 4000 m (>2000 m derating) |  |
| Display                            | LED indicator, Wi-Fi / APP      |  |              |  |              |  |                           |  |
| Communication                      | RS485 / PLC                     |  |              |  |              |  |                           |  |
| DC Connection Type                 | DC connector (4~6 mm²)          |  |              |  |              |  |                           |  |
| AC Connection Type                 | OT / DT terminal (≤400 mm²)     |  |              |  |              |  |                           |  |

<sup>①</sup> Able to start at -40°C.

Note: The parameters depicted in the HSHV320-385K-G02 datasheet are preliminary version and shall not serve as a binding reference for product performance compliance. The final product specifications shall prevail per the actual shipped products.

