

**HOPEWIND**

GREEN RESIDENTIAL SOLUTION

PV Grid-tied Inverter

# hopeSun 8-33KTL



## FEATURES



### High-efficiency

- 2 MPPTs with Max. efficiency 98.60%
- 20A input current, compatible with 210mm PV modules
- High precision & intelligent string detection



### User Friendly

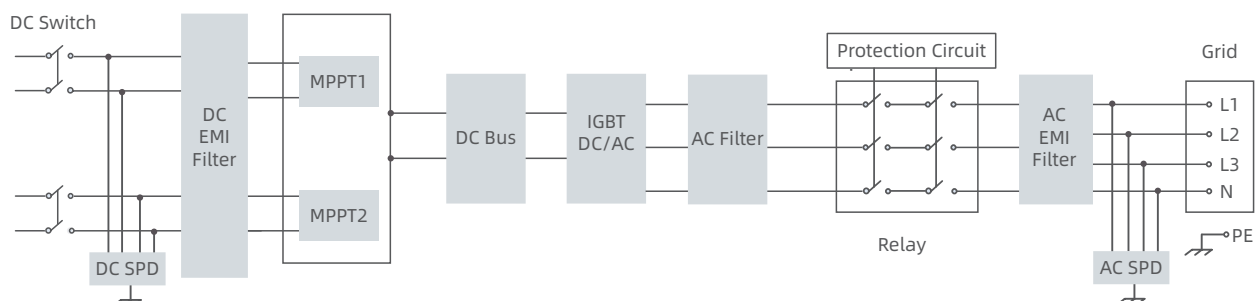
- Built-in zero export function interface
- Touch free commissioning via APP
- Remote firmware updates



### Reliability

- Under/over voltage protection
- Anti-islanding protection
- Built-in Type II DC&AC SPD

## TOPOLOGICAL GRAPH



# PARAMETERS

| Model                              | hopeSun<br>8KTL                 | hopeSun<br>10KTL | hopeSun<br>12KTL | hopeSun<br>15KTL  | hopeSun<br>17KTL | hopeSun<br>20KTL   | hopeSun<br>22KTL | hopeSun<br>25KTL | hopeSun<br>30KTL | hopeSun<br>33KTL |
|------------------------------------|---------------------------------|------------------|------------------|-------------------|------------------|--------------------|------------------|------------------|------------------|------------------|
| DC Input                           |                                 |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Max. PV Input Power                | 12 kW                           | 15 kW            | 18 kW            | 22.5 kW           | 25.5 kW          | 30 kW              | 33 kW            | 37.5 kW          | 45 kW            | 49.5 kW          |
| Max. Input Voltage                 | 1100 V                          |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Starting Voltage                   | 200 V                           |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| MPPT Voltage Range                 | 200~1000 V                      |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| MPPT Range Full Load               | 370~850 V                       |                  |                  | 450~850 V         |                  |                    | 425~850 V        |                  |                  |                  |
| Max. Input Current Per MPPT        | 20 A / 20 A                     |                  |                  | 26 A / 20 A       |                  |                    | 30 A / 30 A      |                  | 40 A / 40 A      |                  |
| Max. Short-circuit Current         | 30 A / 30 A                     |                  |                  | 39 A / 30 A       |                  |                    | 45 A / 45 A      |                  | 60 A / 60 A      |                  |
| Number of DC Inputs                | 1 / 1                           |                  |                  | 2 / 1             |                  | 2 / 2              |                  |                  | 3 / 3            |                  |
| Number of MPP Trackers             | 2                               |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| AC Output                          |                                 |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Rated Output Power                 | 8 kW                            | 10 kW            | 12 kW            | 15 kW             | 17 kW            | 20 kW              | 22 kW            | 25 kW            | 30 kW            | 33 kW            |
| Max. Output Power                  | 8.8 kW                          | 11 kW            | 13.2 kW          | 16.5 kW           | 18.7 kW          | 22 kW              | 24.2 kW          | 27.5 kW          | 33 kW            | 36.3 kW          |
| Rated Output Voltage               | 230 V / 400 V (3P + N + PE)     |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Operating Voltage Range            | 300~520 V                       |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Rated Output Current               | 11.6 A                          | 14.5 A           | 17.4 A           | 21.7 A            | 24.6 A           | 28.9 A             | 31.8 A           | 36.1 A           | 43.5 A           | 47.6 A           |
| Max. Output Current                | 12.7 A                          | 16.0 A           | 19.1 A           | 23.9 A            | 27.0 A           | 31.8 A             | 35.0 A           | 39.7 A           | 47.8 A           | 52.4 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                | 98.10%                          |                  |                  |                   |                  |                    |                  | 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                             |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| PV Reverse Polarity Protection     | Yes                             |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Anti-islanding Protection          | Yes                             |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Output Overcurrent Protection      | Yes                             |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| DC Switch                          | Yes                             |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Zero Export Function               | Yes                             |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| General Parameters                 |                                 |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Dimensions (W × H × D)             | 360 × 400 × 247 mm              |                  |                  |                   |                  | 380 × 450 × 247 mm |                  |                  |                  |                  |
| Weight                             | ≤22 kg                          |                  |                  |                   |                  | ≤25 kg             |                  | ≤30 kg           | ≤35 kg           |                  |
| Protection Degree                  | IP65                            |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Operating Temperature Range        | -40~+60℃                        |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Cooling System                     | Natural cooling                 |                  |                  | Smart air cooling |                  |                    |                  |                  |                  |                  |
| Topology                           | Transformerless                 |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Operating Altitude                 | 4000 m (>3000 m derating)       |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Display                            | LED, WLAN + APP                 |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| Communication                      | Wi-Fi                           |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| DC Connection Type                 | DC connector (4~6 mm²)          |                  |                  |                   |                  |                    |                  |                  |                  |                  |
| AC Connection Type                 | SC terminal                     |                  |                  |                   |                  | Tube type terminal |                  |                  | OT/ DT terminal  |                  |

