

# Three Phase String Inverter(LV)

SUN-20/25/30K-G02-LV SUN-23/25/30K-G03-LV



120V/208V, 127V/220V, 133V/230V and 50/60Hz, Three phase system



Max. 4 MPP trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

**Deye**

Stock Code: 605117.SH

| Model                                     | SUN-20K-G02-LV  | SUN-25K-G02-LV | SUN-30K-G02-LV | SUN-23K-G03-LV  | SUN-25K-G03-LV | SUN-30K-G03-LV |
|---|---|----------------|----------------|---|----------------|----------------|
| <b>Input Side</b>                         |   |                |                |   |                |                |
| Max. DC Input Power (kW)                  | 26  | 32.5           | 39             | 29.9  | 32.5           | 39             |
| Max. DC Input Voltage (V)                 | 800   |                |                |   |                |                |
| Start-up DC Input Voltage (V)             | 250   |                |                |   |                |                |
| MPPT Operating Range (V)                  | 200-700   |                |                |   |                |                |
| Max. DC Input Current (A)                 | 40+40   | 40+40+40       | 40+40+40+40    | 40+40+40  |                | 40+40+40+40    |
| Max. Short Circuit Current (A)            | 60+60   | 60+60+60       | 60+60+60+60    | 60+60+60  |                | 60+60+60+60    |
| No. of MPP Trackers                       | 2   | 3              | 4              | 3   |                | 4              |
| No. of Strings per MPP Tracker            | 3+3   | 3+3+3          | 3+3+3+3        | 3+3+3   |                | 3+3+3+3        |
| <b>Output Side</b>                        |   |                |                |   |                |                |
| Rated Output Power (kW)                   | 20  | 25             | 30             | 23  | 25             | 30             |
| Max. Active Power (kW)                    | 22  | 27.5           | 33             | 23  | 25             | 30             |
| Rated Output Voltage/Range (V)            | 3L/N/PE 127V/220V<br>0.85Un-1.1Un (this may vary with grid standards) |                |                | 3L/N/PE 120V/208V, 127V/220V, 133V/230V<br>0.85Un-1.1Un (this may vary with grid standards) |                |                |
| Rated Grid Frequency (Hz)                 | 60  |                |                | 50/60   |                |                |
| Operating Phase                           | Three Phase   |                |                |   |                |                |
| Rated AC Grid Output Current (A)          | 52.5  | 65.6           | 78.7           | 63.9/60.4/57.7  | 69.5/65.7/62.7 | 83.4/78.8/75.2 |
| Max. AC Output Current (A)                | 57.8  | 72.2           | 86.6           | 63.9/60.4/57.7  | 69.5/65.7/62.7 | 83.4/78.8/75.2 |
| Output Power Factor                       | 0.8 leading to 0.8 lagging  |                |                |   |                |                |
| Total Harmonics Current Distortion (THDi) | <3%   |                |                |   |                |                |
| DC Injection Current (mA)                 | <0.5%   |                |                |   |                |                |
| <b>Efficiency</b>                         |   |                |                |   |                |                |
| Max. Efficiency                           | 98.7%   |                |                |   |                |                |
| Euro Efficiency                           | 98%   |                |                |   |                |                |
| MPPT Efficiency                           | >99%  |                |                |   |                |                |
| <b>Protection</b>                         |   |                |                |   |                |                |
| DC Reverse-Polarity Protection            | Yes   |                |                |   |                |                |
| AC Short Circuit Protection               | Yes   |                |                |   |                |                |
| AC Output Overcurrent Protection          | Yes   |                |                |   |                |                |
| Output Overvoltage Protection             | Yes   |                |                |   |                |                |
| Insulation Resistance Protection          | Yes   |                |                |   |                |                |
| Ground Fault Monitoring                   | Yes   |                |                |   |                |                |
| Anti-islanding Protection                 | Yes   |                |                |   |                |                |
| Temperature Protection                    | Yes   |                |                |   |                |                |
| Integrated DC Switch                      | Yes   |                |                |   |                |                |
| Remote Software Upload                    | Yes   |                |                |   |                |                |
| Remote Change of Operating Parameters     | Yes   |                |                |   |                |                |
| Surge Protection                          | DC Type II / AC Type II   |                |                |   |                |                |
| <b>General Data</b>                       |   |                |                |   |                |                |
| Cabinet Size (WxHxD mm)                   | 647.5x537x303.5 (Excluding Connectors and Brackets)                   |                |                |   |                |                |
| Weight (kg)                               | 44.5  |                |                |   |                |                |
| Topology                                  | Transformerless   |                |                |   |                |                |
| Internal Consumption                      | <1W (Night)   |                |                |   |                |                |
| Running Temperature                       | -25-65°C, >45°C Derating  |                |                |   |                |                |
| Ingress Protection                        | IP65  |                |                |   |                |                |
| Noise Emission (Typical)                  | ≤50 dB  |                |                |   |                |                |
| Cooling Concept                           | Smart Cooling   |                |                |   |                |                |
| Permissible Altitude (m)                  | 2000  |                |                |   |                |                |
| Warranty                                  | 5 Years   |                |                |   |                |                |
| Grid Connection Standard                  | NBR 16149, NBR 16150, EN 50549, RD 140                                |                |                |   |                |                |
| Operating Surroundings Humidity           | 0-100%  |                |                |   |                |                |
| Safety EMC / Standard                     | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                |                |                |   |                |                |
| <b>Features</b>                           |   |                |                |   |                |                |
| Display                                   | LCD1602   |                |                |   |                |                |
| Interface                                 | RS485/RS232/Wifi/LAN  |                |                |   |                |                |