

# Three Phase String Inverter (LV)

SUN- 6 / 8 K-G03-LV



**LV** 127/220Vac and 60Hz, Three phase system

**▲** 2 MPP tracker, Max. efficiency up to 98.3%

**0** Zero export application, VSG application

**▲** String intelligent monitoring (optional)

**~** Wide output voltage range

**■** Ani-PID function (Optional)

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| Model                                    | SUN-6K-G03-LV   | SUN-8K-G03-LV  |
|--|---|----------------|
| <b>Input Side</b>                        |   |                |
| Max. DC Input Power (kW)                 | 7.8   | 10.4           |
| Max. DC Input Voltage (V)                | 800   |                |
| Start-up DC Input Voltage (V)            | 250   |                |
| MPPT Operating Range (V)                 | 200~700   |                |
| Max. DC Input Current (A)                | 13+13   | 13+26          |
| Max. Short Circuit Current (A)           | 19.5+19.5   | 19.5+39        |
| Number of MPPT / Strings per MPPT        | 2 / 1   | 2 / 1+2        |
| <b>Output Side</b>                       |   |                |
| Rated Output Power (kW)                  | 6   | 8              |
| Max. Active Power (kW)                   | 6.6   | 8.8            |
| Rated AC Grid Voltage (V)                | 127 / 220   |                |
| AC Grid Voltage Range (V)                | 176Vac~242Vac (this may vary with grid standards)                       |                |
| Rated Grid Frequency (Hz)                | 60 / 50 (Optional)  |                |
| Operating Phase                          | Three phase   |                |
| Rated AC Grid Output Current (A)         | 15.7  | 21             |
| Max. AC Output Current (A)               | 17.3  | 23.1           |
| Output Power Factor                      | 0.8 leading to 0.8 lagging  |                |
| Grid Current THD                         | <3%   |                |
| DC Injection Current (mA)                | <0.5%   |                |
| Grid Frequency Range                     | 47~52 or 57~62 (Optional)   |                |
| <b>Efficiency</b>                        |   |                |
| Max. Efficiency                          | 98.3%   | 98.5%          |
| Euro Efficiency                          | 97.5%   |                |
| 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>                      |   |                |
| Size (mm)                                | 330W×457H×205D  | 333W×472H×202D |
| Weight (kg)                              | 11  | 15             |
| Topology                                 | Transformerless   |                |
| Internal Consumption                     | <1W (Night)   |                |
| Running Temperature                      | -25~65°C  |                |
| Ingress Protection                       | IP65  |                |
| Noise Emission (Typical)                 | <25 dB  | <45 dB         |
| Cooling Concept                          | Natural cooling   | Smart cooling  |
| Max. Operating Altitude Without Derating | 2000m   |                |
| Designed Lifetime                        | >20 years   |                |
| Grid Connection Standard                 | ABNT NBR 16149, ABNT NBR 16150, ABNT NBR IEC 62116                      |                |
| Operating Surroundings Humidity          | 0-100%  |                |
| Safety EMC / Standard                    | IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12 |                |
| <b>Features</b>                          |   |                |
| DC Connection                            | MC-4 mateable   |                |
| AC Connection                            | IP65 rated plug   |                |
| Display                                  | LCD1602   |                |
| Interface                                | RS485/RS232/Wifi/LAN  |                |