









# Single Phase String Inverter

SUN- 1.5 / 3 K-G



-  1 MPP tracker, Max. efficiency up to 97.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V
-  Build in AFCI
-  Rapid Shutdown system (Optional)

## Technical Data

| Model                                    | SUN-1.5K-G  | SUN-3K-G |
|--|---|----------|
| <b>Input Side</b>                        |   |          |
| Max. DC Input Power (kW)                 | 2   | 3.9      |
| Max. DC Input Voltage (V)                | 550   |          |
| Start-up DC Input Voltage (V)            | 80  |          |
| MPPT Operating Range (V)                 | 70~500  |          |
| Max. DC Input Current (A)                | 13  |          |
| Max. Short Circuit Current (A)           | 19.5  |          |
| Number of MPPT / Strings per MPPT        | 1/1   |          |
| <b>Output Side</b>                       |   |          |
| Rated Output Power (kW)                  | 1.5   | 3        |
| Max. Active Power (kW)                   | 1.7   | 3.3      |
| Nominal Output Voltage / Range (V)       | L/N/PE 220V/187V-242V, 230V/ 195.5V-253V (Optional)   |          |
| Rated Grid Frequency (Hz)                | 50 / 60 (Optional)  |          |
| Operating Phase                          | Single phase  |          |
| Rated AC Grid Output Current (A)         | 6.5   | 13       |
| Max. AC Output Current (A)               | 7.2   | 14.3     |
| 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                          | 97.3%   | 97.5%    |
| Euro Efficiency                          | 97.1%   | 97.3%    |
| 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)                                | 280Wx272.5Hx184D  |          |
| Weight (kg)                              | 4.8   |          |
| Topology                                 | Transformerless   |          |
| Internal Consumption                     | <1W (Night)   |          |
| Running Temperature                      | -25~65°C, >45°C derating  |          |
| Ingress Protection                       | IP65  |          |
| Noise Emission (Typical)                 | <25 dB  |          |
| Cooling Concept                          | Natural cooling   |          |
| Max. Operating Altitude Without Derating | 2000m   |          |
| Designed Lifetime                        | >20 years   |          |
| Grid Connection Standard                 | CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11 |          |
| 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>                          |   |          |
| DC Connection                            | MC-4 mateable   |          |
| AC Connection                            | IP65 rated plug   |          |
| Display                                  | LCD1602   |          |
| Interface                                | RS485/RS232/Wifi/LAN  |          |

PEA & MEA LIST

