

# Single Phase String Inverter

SUN- 3.6 / 4.2 / 5.2 / 6.2 K-G03



2 MPP trackers, 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

**Deye**

Stock Code: 605117.SH

| Model                                    | SUN-3.6K-G03  | SUN-4.2K-G03 | SUN-5.2K-G03 | SUN-6.2K-G03 |
|--|---|--------------|--------------|--------------|
| <b>Input Side</b>                        |   |              |              |              |
| Max. DC Input Power (kW)                 | 4.7   | 5.5          | 6.5          | 7.8          |
| 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+13   |              |              |              |
| Max. Short Circuit Current (A)           | 19.5+19.5   |              |              |              |
| Number of MPPT / Strings per MPPT        | 2/1   |              |              |              |
| <b>Output Side</b>                       |   |              |              |              |
| Rated Output Power (kW)                  | 3.6   | 4.2          | 5.2          | 6.2          |
| Max. Active Power (kW)                   | 3.96  | 4.62         | 5.72         | 6.82         |
| 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)         | 15.7  | 18.3         | 22.6         | 27           |
| Max. AC Output Current (A)               | 17.2  | 20.1         | 24.9         | 29.7         |
| 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%        | 97.5%        | 97.5%        |
| Euro Efficiency                          | 97.1%   | 97.3%        | 97.3%        | 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                     | Optional  |              |              |              |
| 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×323H×190D  |              |              |              |
| Weight (kg)                              | 7.5   |              |              |              |
| 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   |              |              |              |
| Warranty                                 | 8 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  |              |              |              |