

# String Inverter Grid Connected

## SUN SGS Series (12~30kW)

- >> High efficiency, up to 98.4%
- >> Easy monitoring
- >> Advanced design for reliability assurance



### Efficient and flexible:

- >> Wide MPPT range 300~950V
- >> Peak efficiency up to 98.4%, transformerless
- >> 2 independent MPPT
- >> Precise MPPT algorithm achieve 99.9%, more generation

### Excellent Performance:

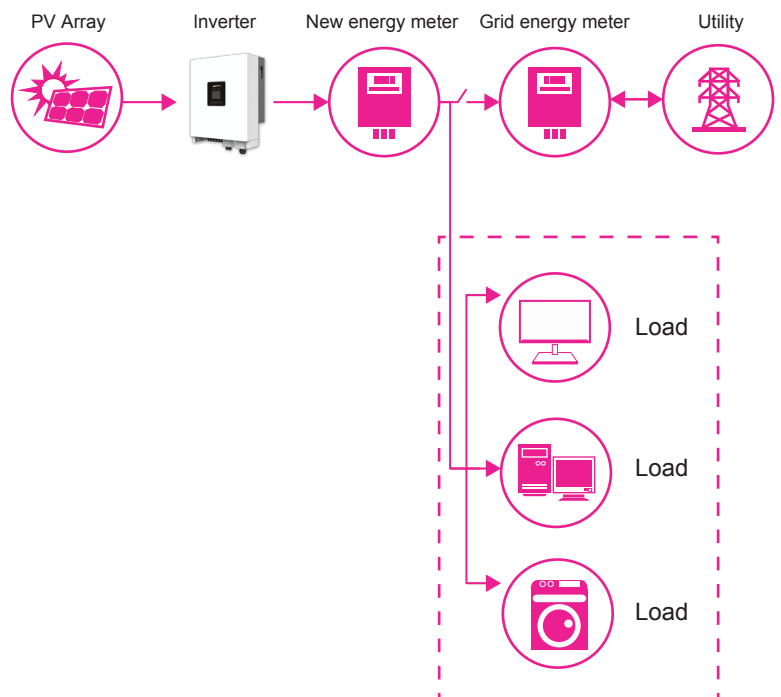
- >> Power factor adjustable ( $\pm 0.8$ )
- >> Grid-friendly with LVRT and accept grid dispatching
- >> IP65 for outdoor application
- >> Operating temperature range,  $-25\sim 60^{\circ}\text{C}$

### High Reliability:

- >> Double working power double resource supply for redundant
- >> Best components ensure reliability and long life
- >> DC reverse connection & AC short circuit protection
- >> Sensitive current leakage protection
- >> DC & AC lightning protection

### User Friendly:

- >> 3.5-inch intelligent color LCD
- >> RS485/Wi-Fi/SNMP/USB for option, easy monitoring
- >> Plug and play connection unit
- >> Wall mounted, quick installation and easy maintenance



**Technical Specification:**

| Items                                | SGS12K   | SGS20K              | SGS30K      |
|--------------------------------------|--|---------------------|-------------|
| <b>Input</b>                         |  |                     |             |
| Max.PV Power (W)                     | 13200  | 22000(25000 option) | 34000       |
| Max.PV Input Voltage (Vdc)           | 1000   |                     |             |
| Startup Voltage (Vdc)                | 250 ~ 950  |                     | 200 ~ 800   |
| MPPT Voltage Range (Vdc)             | 250~950  |                     |             |
| MPPT Voltage Range for Nominal Power | 480~800  |                     |             |
| No. of MPPTs                         | 2  |                     |             |
| Max. Number of PV Strings            | 4  |                     |             |
| MPPT Efficiency                      | 99.90%   |                     |             |
| <b>AC Output</b>                     |  |                     |             |
| Nominal AC Output Power (W)          | 12000  | 20000               | 30000       |
| Max. AC Output Current (A)           | 18.23  | 30.38               | 45.58       |
| Nominal AC Voltage (Vac)             | 220V/380V, 230V/400V   |                     |             |
| Grid Frequency Range (Hz)            | 50Hz(45~55Hz), 60Hz(55~65Hz)   |                     |             |
| THDi                                 | <3%  |                     |             |
| Power Factor                         | >0.99@Default value 0.8leading -0.8lagging   |                     |             |
| <b>Protection</b>                    |  |                     |             |
| Anti-islanding Protection            | Yes  |                     |             |
| LVRT / Ground Fault Protection       | Yes  |                     |             |
| DC Reverse Connection Protection     | Yes  |                     |             |
| AC Short Circuit Protection          | Yes  |                     |             |
| AC Leakage Current Fault Protection  | Yes  |                     |             |
| DC Switch                            | Yes  |                     |             |
| AC / DC Overcurrent Protection       | Yes  |                     |             |
| PV Fault Detect                      | Yes(option)  |                     |             |
| DC Lightning Protection (DC Surge)   | Yes  |                     |             |
| AC Lightning Protection (AC Surge)   | Yes  |                     |             |
| Over Temperature Alarm/Protection    | Yes  |                     |             |
| Operate Temperature range            | -25°C~65°C   |                     |             |
| Storage Temperature range            | 0~50°C   |                     |             |
| Humidity                             | 0~100%(Non-Condensing)   |                     |             |
| <b>Indicator</b>                     |  |                     |             |
| LED                                  | AC Normal, Abnormal, AC Current, DC Normal, Communication WiFi   |                     |             |
| LCD(Real Time)                       | (DC / Volt, Current), (AC / Volt, Current), Output Power, Daily kWh, Total kWh   |                     |             |
| <b>General Data</b>                  |  |                     |             |
| Max. Efficiency                      | 99.0%  |                     |             |
| CEC Efficiency                       | 98.0%  |                     |             |
| Night power consumption (W)          | <1   |                     |             |
| Ingress Protection                   | IP65(IP68 optional)  |                     |             |
| DC connection type                   | MC4 Compatible Screw Terminals (optional)  |                     |             |
| AC connection type                   | Waterproof Screw Terminals   |                     |             |
| Safety                               | EN62109-1, EN62109-2, IEC62109-1, IEC62109-2   |                     |             |
| EMC                                  | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4   |                     |             |
| Grid Standard                        | France: UTE C15-712-1: 2013, DIN VDE 0126-1-1/A1: 2012/VFR-20, ERDF-NOI-RES_13E:2013-06;<br>NB/T32004-2013; UK: G59/3-2:2015; Thailand: PEA, MEA |                     |             |
| Cooling Concept                      | Nature cooling, Cooling fan  |                     |             |
| Noise Emission                       | <40dB  |                     |             |
| Dimensions (WxHxD)(mm)               | 510x265x630  |                     | 530x356x700 |
| Weight (kg)                          | 38kg   | 45kg                | 58.2kg      |
| Communication / Internet / Ethernet  | RS485, Wifi (Option), GPRS (Option)  |                     |             |

\*Product specification are subject to change without further notice.

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