

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:

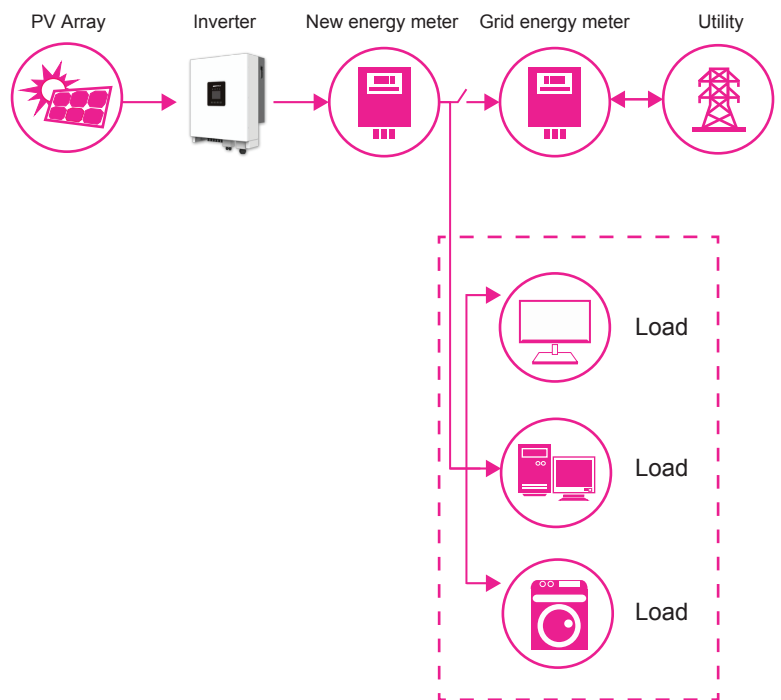
- >> Power factor adjustable (± 0.8)
- >> Grid-friendly with LVRT and accept grid dispatching
- >> IP65 for outdoor application
- >> Operating temperature range, $-25\sim 60^{\circ}\text{C}$

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
Input			
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	4 or 3		
Max. Number of PV Strings	4x3(4x30A) or 3x4(3x40A)		
MPPT Efficiency	99.90%		
AC Output			
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		
Protection			
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)		
Indicator			
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		
General Data			
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; 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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