

String Inverter

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:

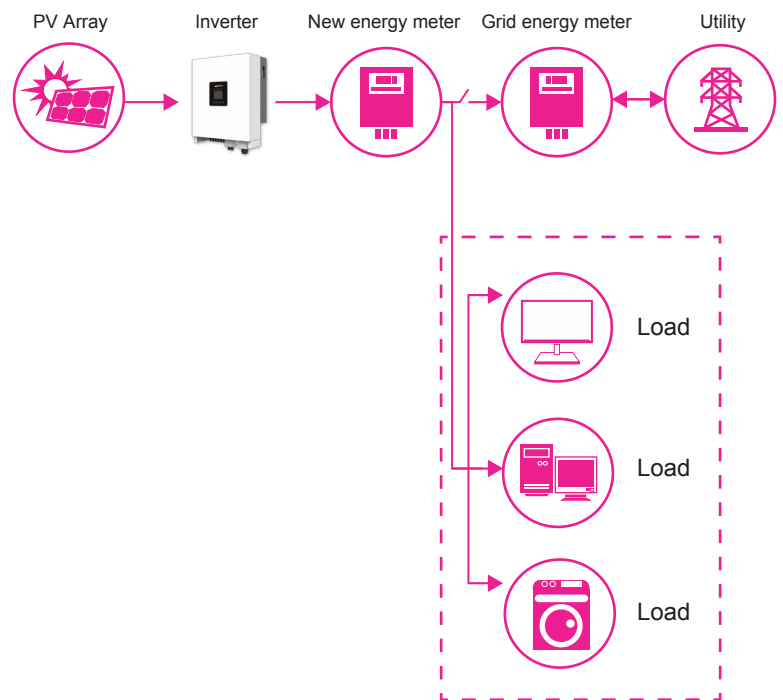
- >> Power factor adjustable (± 0.8)
- >> Grid-friendly with LVRT and accept grid dispatching
- >> IP65 for outdoor application
- >> Operating temperature range, $-25\sim 60^{\circ}\text{C}$

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)	290		
MPPT Voltage Range (Vdc)	300~950		200~800
MPPT Voltage Range for Nominal Power (Vdc)	480~800		
No. of MPPTs	2		4
Max. Number of PV Strings per MPPT	2		
Max. PV Input Current (A)	2x13.8	2x23	2x34.5
MPPT Efficiency	99.90%		
Output			
Nominal AC Output Power (W)	12000	20000	30000
Max. AC Output Current (A)	18.23	30.38	45.58
Nominal AC Voltage (Vac)	3/N/PE, 380/400		
AC Voltage Range (Vac)	3/N/PE, 380/400		
Nominal Grid Frequency (Hz)	50/60		
THDi	<3%(nominal power)		
DC Current Injection (mA)	<155		
Power Factor	>0.99@default value at nominal power ± 0.8		
System Data			
Max. Efficiency	98.40%		98.60%
Max.European efficiency	98.00%		98.30%
Standby consumption (W)	5		
Night power consumption (W)	0		
Display	3.5-inch LCD color screen		
Communication	RS485/USB/WIFI		
DC connection type	MC4		
AC connection type	Terminal connector		
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		
Dimensions (WxHxD)(mm)	510x265x630		530x365x700
Weight (kg)	38	45	58.2
Mounting Method	Wall bracket		
Protection			
Anti-islanding Protection	Yes		
LVRT	Yes		
DC Reverse Connection Protection	Yes		
AC Short Circuit Protection	Yes		
Leakage Current Protection	Yes		
DC Switch	Yes(option)		
DC Fuse	Yes		
Overcurrent Protection	Yes		
PV Fault Detect	Yes(option)		
DC Lightning Protection	Yes		
AC Lightning Protection	Yes		
Over Temperature Alarm/Protection	Yes		
Operate temperature range	-25-65°C		
Humidity	0-100%(Non-Condensing)		

*Product specification are subject to change without further notice.

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บริษัท ชูปัทิก จำกัด

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