

String Inverter Grid Connected

SUN SGS Series (40~50kW)

- >> High efficiency, up to 99.0%
- >> Easy monitoring
- >> Advanced design for reliability assurance
- >> 4 MPPTs for maximum flexibility
- >> Film capacitors for higher reliability



Efficient and flexible:

- >> Wide MPPT range 300~950V
- >> Peak efficiency up to 99.0%, transformerless
- >> 4 MPPTs with 3 inputs each, MPPT achieve 99.9%
- >> 0-90° Mounting orientation for lay on roof installs

Excellent Performance:

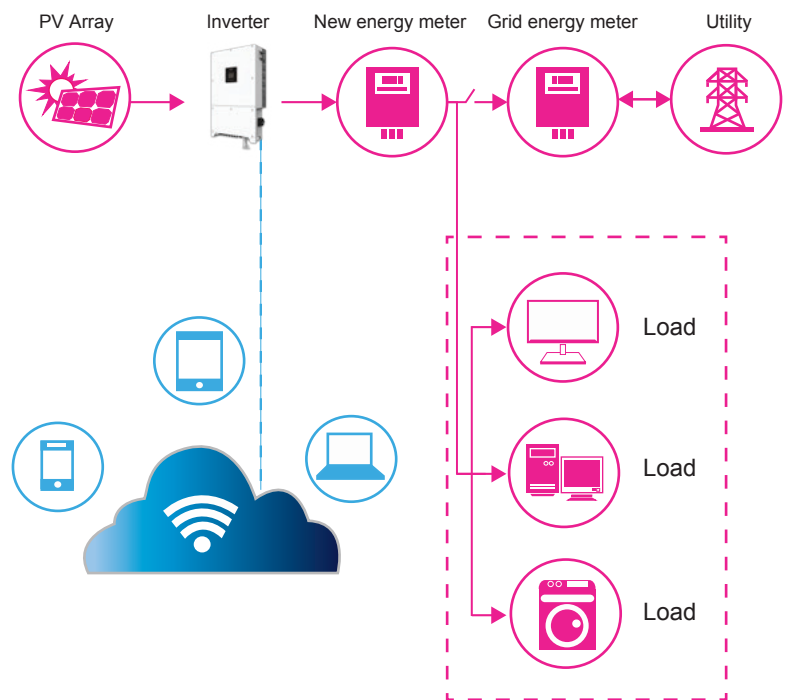
- >> Power factor adjustable (± 0.8)
- >> Grid-friendly with LVRT and accept grid dispatching
- >> NEMA 4X outdoor application
- >> Operating temperature range, -25~65°C
- >> Up to 1.5:1 PV power to inverter load
- >> Anti-PID function for option

High Reliability:

- >> Double working power double resource supply for redundant
- >> DC reverse connection & AC short circuit protection
- >> Sensitive current leakage protection
- >> DC & AC lightning protection
- >> Arc-Fault circuit protection
- >> Integrated AC & DC disconnect switches

User Friendly:

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



Technical Specification:

Items	SGS40K	SGS50K
Input		
Max.PV Power (W)	60000	75000
Max.PV Input Voltage (Vdc)	1000	
Startup Voltage (Vdc)	250	
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)	40000	50000
Max. AC Output Power (W)	44000	55000
Rated AC Output Current (A)	60(max)	76(max)
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/FR-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)	26.3"X39.4"X10.8"=600X1000X275mm	
Weight (kg)	65kg	68kg
Communication / Internet / Ethernet	RS485, Wifi (Option), GPRS (Option)	

*Product specification are subject to change without further notice.

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