

String Inverter

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 300~1000V
- >> 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:

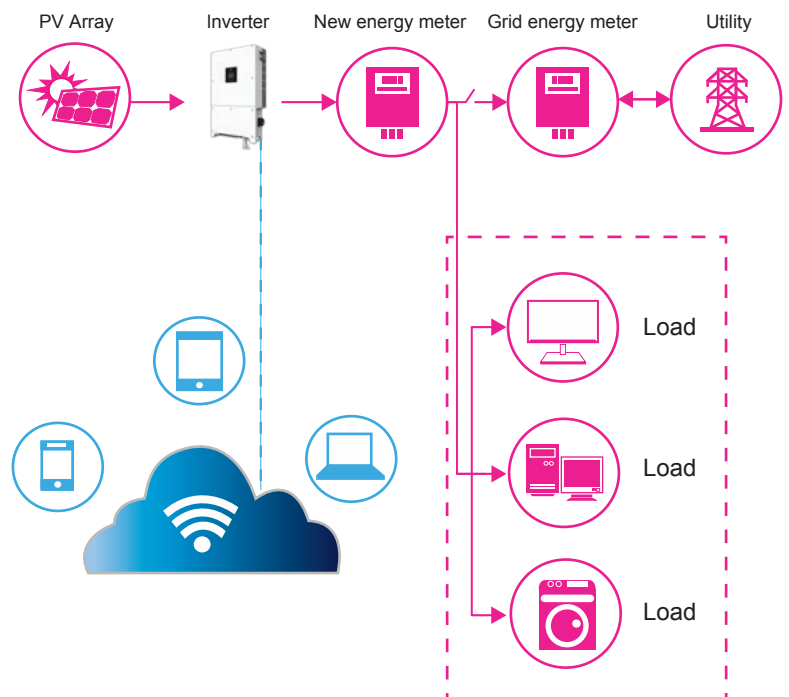
- >> Power factor adjustable (± 0.8)
- >> Grid-friendly with LVRT and accept grid dispatching
- >> NEMA 4X outdoor application
- >> Operating temperature range, -25~60°C
- >> Up to 1.5:1 PV power to inverter load
- >> Anti-PID function for option

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)	300~950	
MPPT Voltage Range for Nominal Power	480~800	
No. of MPPTs	4	
Max. Number of PV Strings	4x3(110A)	
MPPT Efficiency	99.90%	
Output		
Nominal AC Output Power (W)	40000	50000
Max. AC Output Power (W)	44000	55000
Rated AC Output Current (A)	60	75
Nominal AC Voltage (Vac)	230/400/50Hz	
Grid Frequency Range (Hz)	45~55Hz/55~65Hz	
THDi	<3%	
Power Factor	>0.99@Default value 0.8leading -0.8lagging	
General Data		
Max. Efficiency	99.0%	
CEC Efficiency	98.0%	
Night power consumption (W)	<1	
Ingress Protection	IP65	
DC connection type	Screw Terminals (MC4 optional)	
AC connection type	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	Smart air cooling	
Dimensions (WxHxD)(mm)	26.3"X39.4"X10.8" in/600X1000X275mm	
Weight (kg)	143lbs / 65kg	150lbs / 68kg
Communication	RS485, Wifi (Option), GPRS (Option)	
Protection		
Anti-islanding Protection	Yes	
LVRT	Yes	
DC Reverse Connection Protection	Yes	
AC Short Circuit Protection	Yes	
Leakage Current Protection	Yes	
DC Switch	Yes	
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 rang	-25°C-65°C	
Humidity	0-100%(Non-Condensing)	

*Product specification are subject to change without further notice.

Chuphotic.BRO-37.SUN SGS Series 40-50kW.Rev1.00/2018

บริษัท ชูฟอทิก จำกัด

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