SUNGROW



PV Grid-Connected Inverters 2015~2016

Green and Effective www.sungrowpower.com

We are the second largest PV inverter manufacturer in the world

- —— With 18 years of proven experience in PV industry
- —— Over 12GW deployed globally
- —— Global shipment rank No.2
- —— The most requested Chinese PV inverter brand all around the world



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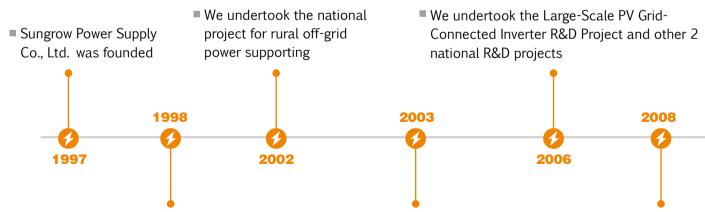
PV combiner box · Data logger · Online PV plant monitoring website Online Household PV Monitoring system

Reference & Service

54=61

Global Reference · Service





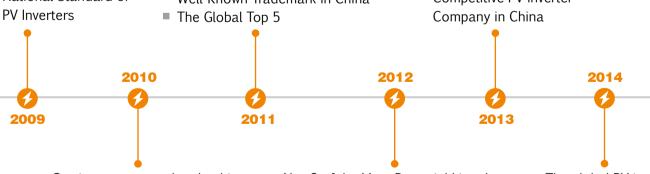
- Our first self-developed PV inverter was installed for the Southern Xinjiang Railway
- The first self-developed 10kW grid-conntected PV inverter in China was successfully connected to the grid in Fengxian, Shanghai
- Our inverters were deployed in the Bird Nest of Beijing Olympic Games
- Our products were delivered into Spain and several other overseas markets



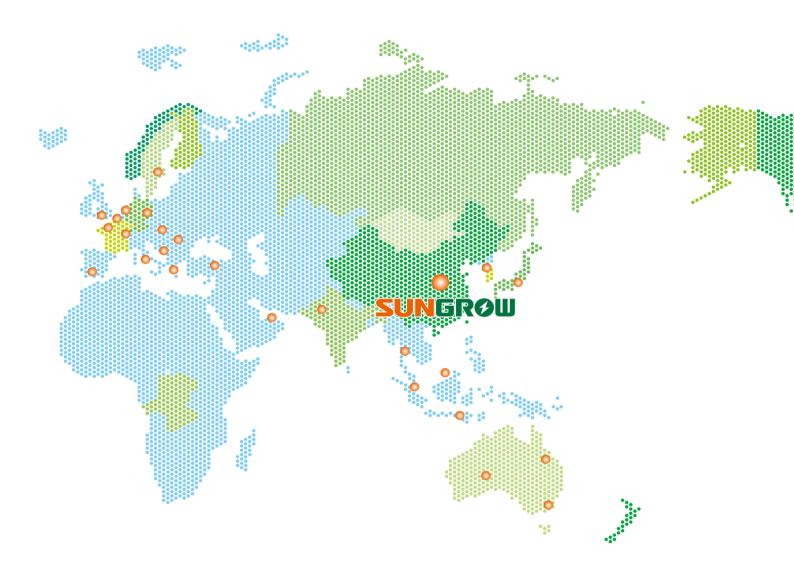
Sungrow Power Supply Co., Ltd. manufactures power supply equipment for solar PV and wind power projects. The company's products range from grid-connected PV inverters, wind power converters, to energy storage converters. We also provide development, construction, and operation management for renewable energy projects.

- On November 2nd, Sungrow (sym: 300274) was successfully listed in SZSE, China
 We draft the Chinese
 SLINGROW was recognized as a
 - We draft the Chinese SUNGROW was recognized as a National Standard of Well-Known Trademark in China

 Awarded as the Most Competitive PV Inverter Company in China



- Our inverters were depolyed in Shanghai World Expo
- National Postdoctoral Research Station was founded in Sungrow
- No. 9 of the Most Potential Listed Companies in China of 2012
- The Global Top 3
- National Enterprise Technology Center in China founded in Sungrow
- The global PV inverter shipments of 4.23GW, hit a historical high

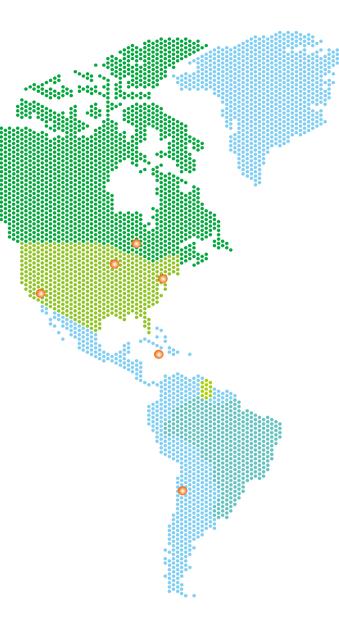


90,000m²
Industry park

1,100⁺ Employees

35% R&D personnel

No.2
Global industry ranking



Since 2005, Sungrow's PV inverters were delivered to Japan.

Since 2008, Sungrow's products were widely deployed in European & American markets on a large scale.

Today, Sungrow provides various products and solutions to Germany, US, Australia and many other countries, as well as establishing a mature and trustworthy service network all around the world.

In 2008, Sungrow launched professional monitoring system for PV plant operation, therefore the users could always be aware of their PV plants' real time performance via PC or mobile phone, and this system had already evolved into a comprehensive platform of design, monitoring and service for all kinds of PV plants across the world. Also in this year, we started a continuous cooperation with a well-known insurance group regarding the Commercial General Liability Insurance (CGLI) to provide security commitment to Sungrow's PV grid-connected inverters applied worldwide.

12GW⁺
Application around the world

18YResearch and application experience of PV inverter

510⁺

PV Grid-Connected Inverter **Products Overview** SG1000TS-MV SG60KTL/SG60KU SG50/60KTL-M **Central Inverter** SG20KTL SG8/10/ 12KTL-EC **String Inverter** CANADAR AND SERVICE OF THE PROPERTY OF Accessory & **Monitoring Products** PV combiner box Data logger



SG1000TS/1260TS/1000TS-M

SG1000MX

SG750/800MX

SG500MX

SG630MX



SG60KU-M

SG30KTL-M/SG40KTL

SG30/36KU





SG3/4/5/6KTL-EC

SG2KTL~4KTL-S SG3KTL~5KTL-D





Online Household PV Monitoring system

Online PV plant monitoring website





Central Inverter



SG 1000 / 1260TS





Compact design

- 7 square meters area for megawatt-class equipment
- Transport and installation by forklift, more flexible and economical



Convenient O&M

- Open door design of four sides, easy for installation and maintenance
- More flexible for inner devices overall replacement

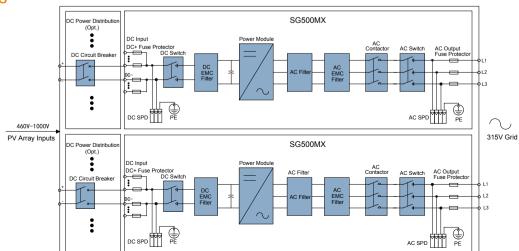


Heat Dissipate, Dust Proof and Heat Insulation

- ## Efficient cooling patented design of combination inline and ventilation
 - Patented structure design of inlet and outlet, effective dust proof
 - Thick and efficient heat insulation layer

Circuit Diagram

SG1000TS



Input Side Data(DC)	SG1000TS	SG1260TS
Max. DC power (@ cos φ =1)	1120kW	1428kW
Max. input voltage	1000V	
Start voltage	500V	
Min. working voltage	460V	
Max. input current	2240A	3104A
MPPT voltage range	460~850V	
Number of DC inputs	16/32	2*8
Output Side Data(AC)		
Rated power	1000kW	1260kW
Max. output AC power	1100kVA	1400kVA
Max. output current	2016A	2560A
Max. THD	<3% (at nominal power)	
Rated grid voltage	315V	
Grid voltage range	252~362V	
Rated grid frequency	50Hz/60Hz	
Grid frequency range	47~52Hz/57~62Hz	
Power factor at rated power	>0.99	
DC current injection	< 0.5% of rated inverter output current	
Adjustable displacement factor	0.9 (leading) ~0.9 (lagging)	
Efficiency		
Max. efficiency	98.70%	
European efficiency	98.50%	
Protection		
DC disconnect device	Switch-disconnector with fuses	DC Breaker
AC disconnect device	Switch-disconnector with fuses	AC Breaker
DC overvoltage protection	Yes	
AC overvoltage protection	Yes	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
Overheat protection	Yes	
Insulation monitoring	Yes	
General Data		
Dimensions (W*H*D)	2991*2591*2438mm	
Weight	Containing DC Distribution Cabinet: 4795kg	Containing DC Distribution Cabinet: 4839kg
-	Not Containing DC Distribution Cabinet: 4460kg	Not Containing DC Distribution Cabinet: 4504kg
Operating temperature range	-35~50℃	· · · · · · · · · · · · · · · · · · ·
External auxiliary supply voltage (Opt.)	380V	
0	-	

Cooling concept

Degree of protection

Max. permissible value for relative

humidity (non-condensing) Max. altitude

Communication port/protocols

Temperature controlled air-cooling

IP54

0~95%, non -condensing

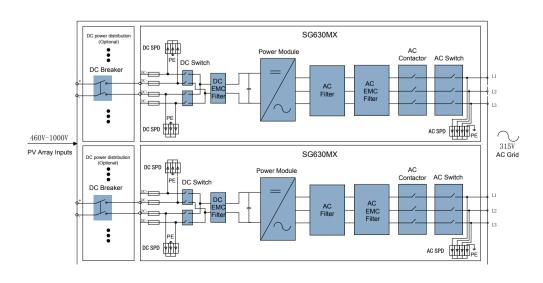
6000m (derating>3000m)

Standard: RS485 / Modbus, Internet

Options: CDT, DNP3.0, 101, 103, 104, GPRS/CDMA module

Circuit Diagram

SG1260TS



SG IOOOTS-M





Compact design

- 7 square meters area for megawatt-class equipment
- Transport and installation by forklift, more flexible and economical



Convenient O&M

- Open door design of four sides, easy for installation and maintenance
- More flexible for inner devices overall replacement



Heat Dissipate, Dust Proof and Heat Insulation

- Efficient cooling patented design of combination inline and ventilation
- Patented structure design of inlet and outlet, effective dust proof
- Thick and efficient heat insulation layer



7 Advanced inverter technology

- Advanced three-level circuit structure improves product performance
- 8-MPPT, wide MPP voltage range, flexible setting of 2 / 4 / 8 MPPT
- Comprehensive modular, draw-type design



Environmental

 After the end of the life cycle of the container shell is recyclable, no concrete recycling issues

Input Side Data(DC)

1120kW Max. DC power (@ $\cos \phi = 1$) Max. input voltage 1000V Start voltage 520V Min. working voltage 500V Max. input current 2128A MPPT voltage range 500~850V Number of MPPTs 2/4/8 Number of DC inputs 2 x 8

Output Side Data (AC)

Rated power 1000kW Max. output AC power 1100kVA Max. output current 2036A THD

<3% (Nominal power)

Nominal AC voltage 315V AC voltage range 252~362Vac Nominal grid frequency 50Hz/60Hz

Grid frequency range 47~52Hz/57~ 62Hz Power factor >0.99@default value at

> nominal power, adj. 0.9 leading ~ 0.9 lagging

Isolated transformer Νo DC current injection <0.5% In

Efficiency

Max. efficiency 98.80% European efficiency 98.60%

General Data

Dimensions (W*H*D) 2991*2591*2438mm

Containing DC Distribution Cabinet: 5169Kg, Weight Not Containing DC Distribution Cabinet: 4834Kg

IP54

Operating ambient temperature range -35~+50°C

380V External auxiliary supply voltage

Cooling method

Ingress protection rating

Allowable relative humidity range Max. operating altitude

Communication port/protocols

Options: CDT, DNP3.0, 101, 103, 104, GPRS/

CDMA module

Temperature controlled air-cooling

Standard: RS485/ Modbus, Internet

0~95%, no condensing

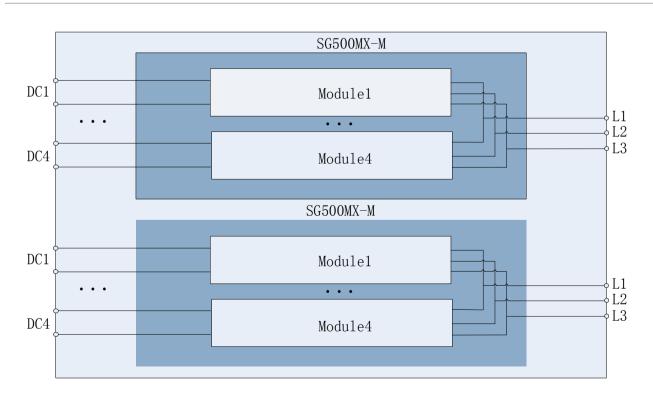
6000m (>3000m derating)

Protection

Insulation monitoring

DC disconnect device Switch-disconnector with fuses AC disconnect device Switch-disconnector with fuses DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Yes Over temperature protection Yes

Yes



SG IOOOTS-MV





Turn-key Solution, High Integration

- Integrated PV inverter, DC/AC power distribution (Option on request), medium-voltage transformer, system monitoring, fire alarm, environment monitoring (Option on request) functional modules and so on
- Save AC cables, lower consumption and promote users' benefits
- SCADA monitoring system integrated to reduce the costs and ensure the optimal status of the plant



Easy for Transportation and Handling, Environment Adaptable

- Container design, easy for transportation
- Integral hoisting, easy to install, reduce the installation cost and risks
- Standard container enclose, integrated design for ventilation, sandproof, anti-corrosion and anti-low-temperature and other application requirements



Advanced Technology, Grid-friendly

- Efficiency, energy-saving and reliability as with all Sungrow inverters
- Integrated with standard power dispatch interfaces, convenient and flexible access to power grid
- LVRT (Zero-voltage Ride-through), Reactive power control with power factor from 0.9 lagging to 0.9 leading, Give reactive power compensation to the grid at night according to directive

Input Side Data(DC)

Output Side Data(AC)

Rated power 1000kW
Max. output AC power 1100kVA
Max. output current 63.5A

Max. THD <3%(at nominal power)

Rated grid voltage 10-24kV Rated grid frequency 50Hz/60Hz

Grid frequency range $47\sim52$ Hz $/57\sim62$ Hz

Power factor at rated power >0.99

DC current injection <0.5% of rated inverter

output current

Adjustable displacement factor 0.9 (leading) ~0.9 (lagging)

Efficiency

Max. efficiency 98.00% European efficiency 97.50%

General Data

Dimensions (W*H*D) 6058*2591*2438mm

Weight 12T Operating temperature range $-35\sim50^{\circ}$ C External auxiliary supply voltage (Opt.) 380V

Cooling concept Temperature controlled air-cooling

Degree of protection IP54

 $\begin{array}{ll} {\rm Max.\ permissible\ value\ for\ relative} & 0{\sim}95\%, {\rm non\ -condensing} \\ {\rm humidity\ (non\ -condensing)} & {\rm 6000m\ (derating} > 3000m) \end{array}$

Max. altitude Standard: RS485/ Modbus, Internet Communication port/protocols Options: CDT, DNP3.0, 101, 103, 104,

GPRS/CDMA module

Protection

Insulation monitoring

DC input side disconnection device

AC output side disconnection device

Covervoltage protection

Covervoltage protection on the LV side

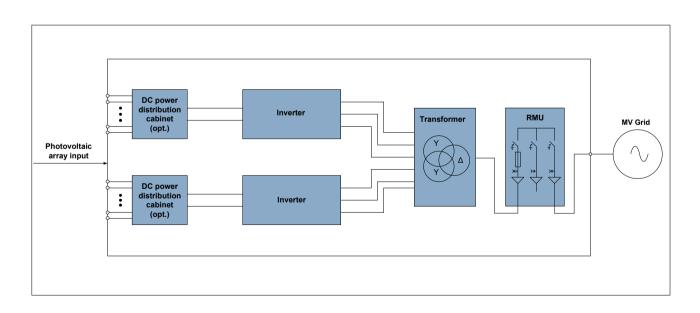
Yes

Coverbeat protection

Switch-disconnector with fuses

Yes

Yes



SG IOOOMX





Grid-friendly

- Full grid support, including LVRT, OVRT, FRT, and power curtailment
- Overload capability, maintaining real power output while satisfying power factor requirement
- Adjustable active power (0 -110%)
- Adjust automatically adjust reactive power according to the grid voltage
- Adjust automatically adjust active power according to the grid frequency
- Reactive power control with power factor adjustment from 0.8 leading / 0.8 lagging
- Nighttime reactive power compensation capability
- Intelligent control, compliance with multiple regional utility standards



Efficient

- Max. Efficiency at 98.8%
- Efficient MPPT control design for higher yield
- Efficient control algorithm, low consumption on switch device
- Temperature controlled air-cooling, energy saving



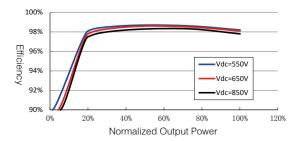
Oualified

• TÜV, cCSAus, compliance with BDEW



Adaptable

- -30°C ~ +55°C continuously operating at rated power
- NEMA 3R(IP54) for easy outdoor installation
- Continuously and stably working in high altitude environment
- Auxiliary heater (Optional)



Input (DC)

 Max. PV input voltage
 1000V

 Max. PV input current
 2000A

 MPP voltage range
 550~850V

 No. of DC inputs
 1, 8-14

PV array configuration Negative ground (standard), floating or positive ground (opional)

Output (AC)

Nominal AC output power 1000kW
Max. AC output apparent power 1100kVA
Max. AC output current 1650A

THD <3 % (Nominal power)

Nominal AC voltage 385V
AC voltage range 338~424V
Nominal grid frequency 50Hz/60Hz
Grid frequency range 47~52Hz/57~63Hz

Power factor 0.8 overexcited ~0.8 underexcited

Isolated transformer No DC current injection <0.5 % In

Efficiency

Max. efficiency 98.80% European efficiency 98.40% CEC efficiency 98.50%

Protection

Input side disconnection device DC load switch; Breaker (Optional)

Output side disconnection device Breaker
DC overvoltage protection Yes
AC overvoltage protection Yes
Grid monitoring Yes
Ground fault monitoring Optional
Over temperature protection Yes
Insulation monitoring Optional

General Data

Dimensions (W*H*D) 2598*2164*1000mm

Weight 2050kg

Operating ambient temperature range -30~+60°C (>55°C derating)

Night power consumption <20W

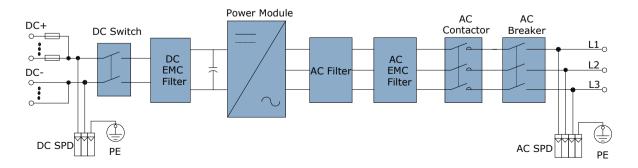
External auxiliary supply voltage 400/480V (3/N/PE)

Cooling method Temperature controlled air-cooling

 $\begin{array}{ll} \mbox{Ingress protection rating} & \mbox{NEMA 3R (IP54)} \\ \mbox{Allowable relative humidity range} & 0 {\sim} 95\%, \ \mbox{no condensing} \\ \mbox{Max. operating altitude} & 4000m \ \mbox{(>} 2000m \ \mbox{derating)} \\ \end{array}$

Fresh air consumption 4425m³/h Display LCD

Communication RS485/Modbus, Ethernet



SG 750 / 800MX





Efficient and flexible

- Transformerless inverter, max. efficiency of 98.7%, CEC efficiency of 98.5% for SG800MX,max. efficiency of 98.6%, CEC efficiency of 98.0% for SG750MX
- Employing a patented thermal management system, the inverter is able to operate from -13°F to 140°F (-25°C to 60°C), and up to 19,600' (6,000 m)



Grid-friendly

- Continuous active power control
- Advanced grid support functionality, meet grid requirements around the world
- Full remote and local power curtailment, PF, HVRT, LVRT, FRT controls via ModBus & Ethernet



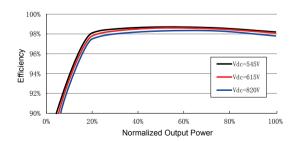
Easy Inatallation

- High power density, small equipment footprint
- DC disconnect, AC circuit breaker, separate DC & AC cabinets
- Max. DC input voltage is 1000V, can be mounted on a skid or an e-house, giving maximum design flexibility and lowering installation costs



Reliable

- Designed for 20+ years of operating life
- NEMA4X electronics cabinet



Max. PV input voltage 520V 565V Min. operation voltage 520V 565V Min. operation voltage 500V 545V Max. PV input current 1800A May PV voltage range 500—820V 545—820V No. of DC inputs 1,6-12 PV array configuration Negative ground (standard), floating or positive ground (optional) Output (AC) Or positive ground (optional) Nominal AC output power 750kW 80kW Max. AC output apparent power 825kVA 880kVA Max. AC output current 1512A Max. AC output current 1512A THD < 3% (nominal power) Nominal AC voltage 315V 342V AC voltage range 277—347Vac 300—377Vac Nominal aff frequency 50Hz/80Hz Srid frequency range 47—52Hz/57~63Hz Power factor > 0,99@default value at nominal power, adj. 0.8 leading ~ 0.8 lagging solated transformer No DC current injection √0.5% In Efficiency Max. efficiency 98.0% 98.70% European efficiency 98.0% 98.50% Protection Input side disconnection device DC Ced switch Output side disconnection device Breaker Coverolage protection Yes Ground fault monitoring 79es Ground fault monitoring 79es General Data General Data University 1000 1000 1000 1000 1000 1000 1000 10	Input (DC)	SG 750MX	SG 800MX	
Start voltage	Max. PV input power	850kW	900kW	
Min. operation voltage 500V 545V Max. PV input current 1600A Max. PV input current 1600A Max. PV input current 1600A No. of DC inputs 1,6-12 PV array configuration Negative ground (standard), floating or positive ground (optional) Output (AC) Output (AC) Output account of the part of	Max. PV input voltage	1000V		
Max. PV input current MPP voltage range 500 −820V 1,6-12 PV array configuration Output (AC) Negative ground (standard), floating or positive ground (optional) Nominal AC output power ABBAX. AC output apparent power Max. AC output apparent power Max. AC output current 1512A 17HD -3% (nominal power) Nominal AC voltage 315V 342V AC voltage range 277 −347Vac 300 −377Vac Nominal prid frequency 3014/260Hz Grid frequency range 47 −52Hz/57 − 63Hz Power factor Solated transformer No DC current injection Efficiency Max. efficiency Max. efficiency Max. efficiency Protection Input side disconnection device Output side disconnection device Output side disconnection device Output side disconnection device OC overvoltage protection Yes Grid monitoring Over temperature protection (Yes Grid monitoring Optional	Start voltage	520V	565V	
MPP voltage range No. of DC inputs Nominal AC output power Nominal AC output apparent power Nominal AC output apparent power Nominal AC output current Nominal GC output current Nominal SC output current Nominal GC output represent SC output Current Nominal GC output represent SC output Current Nominal GC output represent SC output SC o	Min. operation voltage	500V	545V	
1,6-12	Max. PV input current	1600A		
PV array configuration or positive ground (standard), floating or positive ground (optional) Output (AC) Nominal AC output power Max. AC output apparent power Max. AC output apparent power Max. AC output current THD -3% (nominal power) Nominal AC voltage AC voltage arnge -277-347Vac Soltz/60Hz Grid frequency arnge 47-52Hz/57-63Hz Power factor No CC current injection Efficiency Max. efficiency B8.60% B8.70% B8.70% B8.70% B8.70% B8.00% B8.70%	MPP voltage range	500~820V	545~820V	
Output (AC) or positive ground (optional) Nominal AC output power 750kW 800kW Max. AC output apparent power 825kVA 880kVA Max. AC output current 1512A THD <3% (nominal power)	No. of DC inputs	1,6-12		
Nominal AC output power	PV array configuration	Negative ground (standard), floating	ng	
Max. AC output apparent power 825kVA 880kVA Max. AC output current 1512A THD <3% (nominal power)	<td>Output (AC)</td> <td>or positive ground (optional)</td> <td></td>	Output (AC)	or positive ground (optional)	
Max. AC output current 1512A THD <3% (nominal power)	Nominal AC output power	750kW	800kW	
THD	Max. AC output apparent power	825kVA	880kVA	
Nominal AC voltage	Max. AC output current	1512A		
AC voltage range 50Hz/60Hz 50Hz/60Hz 47~52Hz/57~ 63Hz Power factor AC voltage range AC voltage range AC voltage range 47~52Hz/57~ 63Hz Power factor AC voltage range AC voltage range AC voltage range AC voltage range 47~52Hz/57~ 63Hz Power factor AC voltage range AC voltage protection AC voltage pro	THD .	<3% (nominal power)		
Nominal grid frequency SoHz/60Hz	Nominal AC voltage	315V	342V	
Nominal grid frequency SoHz/60Hz	AC voltage range	277~347Vac	300~377Vac	
Grid frequency range 47~52Hz/57~ 63Hz Power factor >0.99@default value at nominal power, adj. 0.8 leading ~ 0.8 lagging solated transformer No DC current injection <0.5% In		50Hz/60Hz		
Power factor	- · · · · · · · · · · · · · · · · · · ·	47~52Hz/57~ 63Hz		
Isolated transformer	Power factor		ver, adj. 0.8 leading ~ 0.8 lagging	
Efficiency Max. efficiency Max. efficiency 98.60% 98.70% Buropean efficiency 98.30% 98.40% Protection Input side disconnection device Output side disconnection device DC load switch Output side disconnection device Breaker DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight	Isolated transformer		, , , , , , , , , , , , , , , , , , , ,	
Max. efficiency 98.60% 98.70% European efficiency 98.30% 98.40% CEC efficiency 98.00% 98.50% Protection Input side disconnection device DC load switch Output side disconnection device Breaker DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection General Data Dimensions (W*H*D) 2598*2164*1000mm Weight	DC current injection	<0.5% In		
European efficiency 98.30% 98.40% CEC efficiency 98.00% 98.50% Protection Input side disconnection device DC load switch Output side disconnection device Breaker DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Efficiency			
European efficiency 98.30% 98.40% CEC efficiency 98.00% 98.50% Protection Input side disconnection device DC load switch Output side disconnection device Breaker DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Max. efficiency	98.60%	98.70%	
Protection 98.00% 98.50%	•	98.30%		
Protection Input side disconnection device DC load switch Output side disconnection device Breaker DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight	CEC efficiency	98.00%		
Output side disconnection device Breaker DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Protection			
Output side disconnection device Breaker DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Input side disconnection device	DC load switch		
DC overvoltage protection AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight	•	Breaker		
AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight	·	Yes		
Grid monitoring Yes Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	AC overvoltage protection	Yes		
Ground fault monitoring Optional Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Grid monitoring	Yes		
Over temperature protection Yes Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Ground fault monitoring			
Insulation monitoring Optional General Data Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Over temperature protection	•		
Dimensions (W*H*D) 2598*2164*1000mm Weight 2340kg	Insulation monitoring	Optional		
Weight 2340kg	General Data			
Weight 2340kg	Dimensions (W*H*D)	2598*2164*1000mm		
	Weight	2340kg		
	Operating ambient temperature range	-25~+60°C (>55°C derating)		

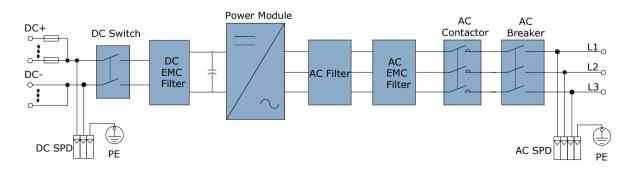
Noise emission <70dB Night power consumption <100W

480/600V (3/N/PE) External auxiliary supply voltage Cooling method Temperature controlled air-cooling

Ingress protection rating NEMA 3R (IP54) Allowable relative humidity range 0~95%, no condensing 6000m (>3000m derating) Max. operating altitude

Fresh air consumption 4425m³/h LCD Display

Communication RS485/Modbus, Ethernet (opt.)



SG 630MX





Grid-friendly

- LVRT / ZVRT
- Active power continuously adjustable (0~100%)
- Reactive power control with power factor adjustment from 0.9 overexcited to 0.9 underexcited
- Give reactive power compensation to the grid at night according to directive



Efficient

- Max. efficiency at 98.7%
- DC input voltage up to 1000V



Adaptable

- -30°C ~ +55°C continuously operating at rated
- Continuously and stably working in high altitude environment
- Auxiliary heater (opt.)



Qualified

- Highly reliable thin-film capacitor, product's lifetime is more than 20 years
- TÜV, CGC certified, compliance with BDEW

Input (DC)

Max. PV input power 714kW Max. PV input voltage 1000V Start voltage 500V Min. operation voltage 460V Max. PV input current 1552A MPP voltage range 460~850V Number of MPPTs Number of DC inputs 2 x 4 Protection

DC Breaker Input side disconnection device Output side disconnection device AC Breaker DC overvoltage protection AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Yes Over temperature protection Yes Insulation monitoring Yes

Output (AC)

Nominal AC output power Max. AC output apparent power 700kVA Max. AC output current Nominal AC voltage AC voltage range Nominal grid frequency Grid frequency range

Isolated transformer DC current injection

Power factor

General Data

630kW	Dimensions (W*H*D)
700kVA	Weight
1280A	Operating ambient temperature range
<3% (nominal power)	Night power consumption
315V	External auxiliary supply voltage
252~362V	Cooling method
50/60Hz	
47~52/57~62Hz	Ingress protection rating
>0.99@default value at	Allowable relative humidity range
nominal power, adj. 0.9	Max. operating altitude
leading ~ 0.9 lagging	Fresh air consumption
No	Display
<0.5% In	Communication

Qualified Efficiency

Max. efficiency European efficiency

1250kg -30~55℃ <20W 380V. 3A Temperature controlled aircooling IP21 0~95%, no condensing

1606*2034*860mm

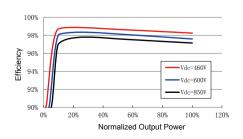
6000m (>3000m derating) 4500m³/h Colored touch screen RS485/Modbus, Ethernet

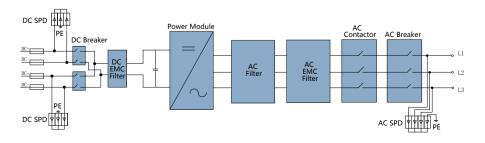
(opt.) CE, CGC certified,

compliance with BDEW

98.70% 98.50%

Efficiency Curve







Grid-friendly

- LVRT
- Overload capacity enhanced 10%, max. output power up to 550kW
- Active power continuously adjustable (0~100%)
- Reactive power control with power factor adjustment from 0.9 overexcited to 0.9 underexcited
- Intelligent control, meet all requirements of the grid



Efficient

- Max. efficiency at 98.7%
- Efficient MPPT control design, more power yields
- Redundant power solution of dual power improving system reliability
- Efficient PWM algorithm, low consumption on power
- Temperature controlled air-cooling, energy saving



Adaptable

- -30°C ~ +55°C continuously operating at rated power
- Continuously and stably working in high altitude environment
- Auxiliary heater (opt.)



Qualified

TÜV, CGC certified, compliance with BDEW

SG 500MX



Input (DC)

Max. PV input power	560kW
Max. PV input voltage	1000V
Start voltage	500V
Min. operation voltage	460V
Max. PV input current	1220A
MPP voltage range	460~850
No. of DC inputs	8/16
Drotostion	

Protection Input side disconnection device DC load switch Output side disconnection device AC load switch

DC overvoltage protection Yes AC overvoltage protection Yes Grid monitoring Yes Ground fault monitoring Yes Over temperature protection Yes Insulation monitoring

Output (AC)

Nominal AC output power	500kW
Max. AC output apparent power	550kVA
Max. AC output current	1008A
THD	<3 % (nominal power)
Nominal AC voltage	315V
AC voltage range	252~362V
Nominal grid frequency	50/60Hz
Grid frequency range	47~52/57~62Hz
Power factor	>0.99@default value at
ch	nominal power, adj. 0.9
ch	leading ~ 0.9 lagging

Isolated transformer DC current injection

General Data

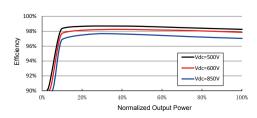
	Dimensions (W*H*D)	1606*2034*860mm
	Weight	1250kg
	Operating ambient temperature range	-30~+55°C
		<20W
	Night power consumption	<2000
	External auxiliary supply voltage	380V, 3A
	Cooling method	Temperature controlled air-
		cooling
	Ingress protection rating	IP21
t	Allowable relative humidity range	0~95%, no condensing
9	Max. operating altitude	6000m (> 3000m derating)
	Fresh air consumption	4500 m ³ /h
	Display	Colored touch screen
	Communication	RS485/Modbus, Ethernet

Efficiency

Max. efficiency European efficiency RS485/Modbus, Ethernet (opt.)

98.70% 98.50%

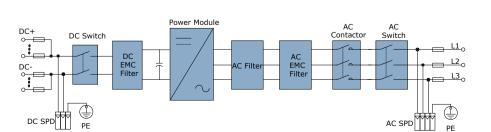
Efficiency Curve



Circuit Diagram

Nο

<0.5% In







String Inverter



SG 60KTL





Efficient and flexible

- String inverter up to maximum power of 66kW and:
 - Max. efficiency up to 99% (EU efficiency = 98.7%)
 - Maximal power density (66kVA / 55kg)
- Output power up to 66kVA / 66kW at power factor of 1



Grid-friendly

- Active power continuously adjustable (0~100%)
- Fulfill a variety of reactive power adjustment requirments with power factor 0.8 overexited ~ 0.8 underexited
- Integrated LVRT and HVRT function
- Includes RS-485 interface, compatible with all common monitoring systems



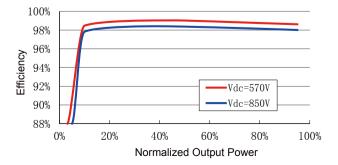
Intelligent design

- Integrated combiner box: 12 x MC4 connector pairs with DC string fuses, Type II overvoltage protection and DC switch, more safety and lower the system cost
- Optional: Screw clamp terminal for connection of external combiner box



Reliable

- Product certification: TÜV, CE, G59/3, BDEW, CGC and GB-T19964
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000



Grid Type 230V/400Vac

Input Side Data

Max. PV input power 67500W Max. PV input voltage 1000V Startup voltage 620V MPP voltage range 570~950V MPP voltage range for nominal power 570~850V No. of MPPTs Max. number of PV strings per MPPT 12 Max. PV input current 120 Max. current for input connector 12A

Output Side Data

Nominal AC output power 60000W Max AC output power (PF=1) 66000W Max. AC output apparent power 66000VA Max. AC output current 96A

3P+N+PE/3P+PE, 230/400Vac Nominal AC voltage

AC voltage range 310~480Vac Nominal grid frequency 50Hz/60Hz 45~55Hz/55~ 65Hz Grid frequency range THD <3% (Nominal power)

DC current injection <0.5%ln

Power factor >0.99@default value at nominal power, (adj. 0.8 leading ~ 0.8 lagging)

Protection

Anti-islanding protection Yes LVRT Yes DC reverse connection protection Yes AC short circuit protection Yes Leakage current protection Yes DC switch Yes AC switch Optional DC fuse Yes PV String detection Optional Optional ARC detection

DC Overvoltage protection DC Type II DIN rail surge arrester (40KA) AC Overvoltage protection Optional AC Type II DIN rail surge arrester (40KA)

System Data

Max. efficiency 99.00% Max. European efficiency 98.70% Isolation method Transformerless Ingress protection rating IP65 Night power consumption <1W

Operating ambient temperature range -25~60°C (>50°C derating)

Allowable relative humidity range 0~100%

Cooling method Smart forced air cooling Max. operating altitude 4000m (>3000m derating)

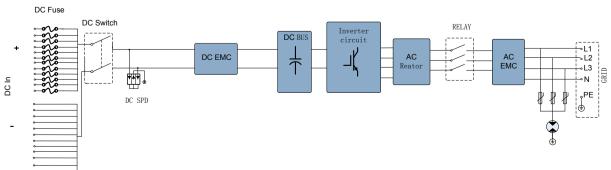
Display Graphic LCD RS485 Communication

DC connection type MC4/Screw Clamp terminal AC connection type Screw Clamp terminal

VDE0126-1-1, EN62109-1, EN62109-2, G59/3, BDEW, GB/T Certification

19964, GB/T 29319

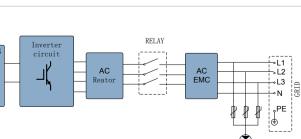
Circuit Diagram



Mechanical Data

Dimensions (W*H*D) Mounting method Weight

634*959*267mm Wall bracket 55kg



SG 50 / 60KTL-M





Efficient and flexible

- High flexibility for complex configurations due to 4 MPP trackers and a wide input voltage range
- High yields due to efficiency up to 98.9% and EU efficiency of 98.5%
- Output power up to 55kVA / 55kW(\$G50KTL-M) and 66kVA / 66kW(\$G60KTL-M) at power factor of 1



Grid-friendly

- Active power continuously adjustable (0~100%)
- Fulfill a variety of reactive power adjustment requirments with power factor 0.8overexited ~0.8 underexited
- Integrated LVRT and HVRT function
- Includes RS-485 interface, compatible with all common monitoring systems



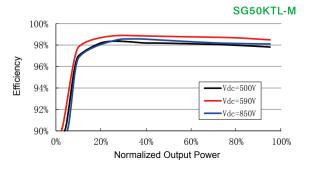
Intelligent design

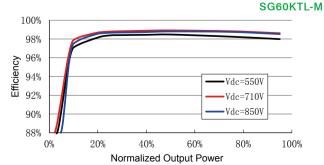
 Integrated combiner box: 12 x MC4 connector pairs with DC string fuses, Type II overvoltage protection and DC switch, more safety and lower the system cost



Reliable

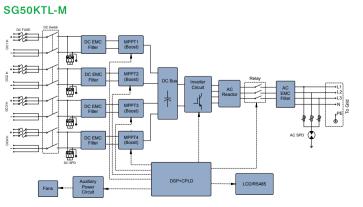
- Product certification: TÜV, CE, G59/3, BDEW, CGC and GB-T19964
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000



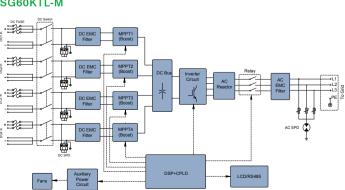


Input Side Data	SG50KTL-M	SG60KTL-M
Max. PV input power	56200W	67500W
Max. PV input voltage	1000V	
Startup voltage	300V	
Nominal input voltage	620V	710V
MPP voltage range	300~950V	
MPP voltage range for nominal power	500~850V	550~850V
No. of MPPTs	4	
Max. number of PV strings per MPPT	3	
Max. PV input current	104A (26A/26A/26A)	112A (28A/28A/28A)
Max. current for input connector	12A	(, , , ,
Output Side Data		
Nominal AC output power	50000W	60000W
Max AC output power (PF=1)	55000W	66000W
Max. AC output apparent power	55000VA	66000VA
Max. AC output current	80A	
Nominal AC voltage	3/N/PE, 230/400Vac	3/PE, 480Vac
AC voltage range	310~480Vac	422~528Vac
Nominal grid frequency	50Hz/60Hz	122 020 400
Grid frequency range	45~55Hz /55~ 65Hz	
THD	<3% (Nominal power)	
DC current injection	<0.5%In	
Power factor	>0.99@default value at nominal power, (adj. 0.8	leading ~
	0.8 lagging)	ricading
Protection	0.0 ldgging/	
Anti-islanding protection	Yes	
LVRT	Yes	
DC reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
DC switch	Yes	
DC fuse	Yes	
Overvoltage protection	Type II DIN rail surge arrester (40kA)	
System Data		
Max. efficiency	98.90%	
Max. European efficiency	98.50%	98.60%
Isolation method	Transformerless	
Ingress protection rating	IP65	
Night power consumption	<1W	
Operating ambient temperature range	-25~60°C (>50°C derating)	
Allowable relative humidity range	0~100%	
Cooling method	Smart forced air cooling	
Max. operating altitude	4000m (>3000m derating)	
Display	Graphic LCD	
Communication	RS485	Machanical Data
DC connection type	MC4	Mechanical Data
AC connection type	Screw Clamp terminal	Dimensions (W*H*D) 665*906*256 mm
Certification	VDE0126-1-1, EN621091, EN621092, G59/3,	Mounting method Wall bracket
	BDEW, GB/T 19964, GB/T 29319	Weight 70kg

Circuit Diagram



SG60KTL-M



SG 60KU





Efficient and flexible

- String inverter up to maximum power 63.36kW and:
 - Max. efficiency up to 99% (CEC efficiency = 98.5%)
 - Maximal power density (63.36kVA / 55kg)
- Output power up to 63.36kVA / 63.36kW at power factor of 1



Grid-friendly

- Active power continuously adjustable (0~100%)
- Fulfill a variety of reactive power adjustment requirments with power factor 0.8 overexited ~ 0.8 underexited
- Integrated LVRT and HVRT function
- Includes RS-485 and Ethernet interface, compatible with all common monitoring systems



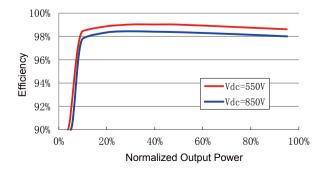
Intelligent design

- Integrated combiner box: 8 x H4 connector pairs with DC string fuses (both positive and negative), Type Il overvoltage protection (both DC and AC), DC and AC switch, more safety and lower the system cost
- Integrated string detection function and arc fault detection



Reliable

- Product certification: UL 1741, IEEE 1547 IEEE 1547.1,
 CSA C22.2#107.1-01-2001,FCC Part 15 Sub-part B
 Class B Limits
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000



25*37.8*10.5inch

Input Side Data 220/380Vac

 Max. PV input power
 65000W

 Max. PV input voltage
 1000V

 Start-up voltage (Voc)
 620V

 Stop Voltage
 540

 MPP voltage range
 550~950V

 MPP voltage range for nominal power
 550~850V

 No. of MPPTs
 1

 Max. number of PV strings per MPPT
 8

String Fuse Positive and Negative

 Max. PV operating current
 120A

 maximum DC short circuit current
 200A

 Max. current for input connector
 25A

 Arc Flash Detection
 Standard

 DC Disconnect
 Standard

 Insulation Detection
 Yes

DC Surge Arrestor Type II DIN rail surge arrester

Output Side Data

Nominal AC output power 60000W

Max AC output power (PF=1) 63360W

Max. AC output apparent power 63360VA

Max. AC output current 96A

Nominal AC voltage 3Ø/3W, 220/380Vac AC voltage range 295~456Vac Nominal grid frequency 60Hz Grid frequency range 55~65Hz

THD <3% (Nominal power)

DC current injection <0.5%ln

Power Factor@FL >0.99@default value at nominal power

Power Factor Range 0.8LG-0.8LD
AC Maximum Cable Size 0AWG, Cu or Al

AC Surge Arrestor Type II DIN rail surge arreste

AC Leakage Current Detection Yes
AC Disconnect Yes

Protection

Anti-islanding protection Yes
Low Voltage Ride Through Standard
DC reverse connection protection Yes
AC short circuit protection Yes

Mechanical Data

Communication

Dimensions (W*H*D) 634*959*267mm

Mounting method Wall bracket

Weight 55kg (121lbs)

System Data

99.00% RS485 Standard Max efficiency Standard **CEC** efficiency 98.50% Ethernet Topology Transformerless I/O dry contact Standard protection rating NEMA4X Modbus Protocol Night power consumption <1W

Operating ambient temperature range $-25 \sim 60 ^{\circ} \text{C (>} 50 ^{\circ} \text{C derating)} \qquad -13... + 140 ^{\circ} \text{F (>} 122 ^{\circ} \text{F derating)}$

Allowable relative humidity range $0\sim100\%$

Cooling method Smart forced air cooling

Noise(dB) <55dB

Max. operating altitude 4000m (>3000m derating) 13,000ft (>9,800ft derating)

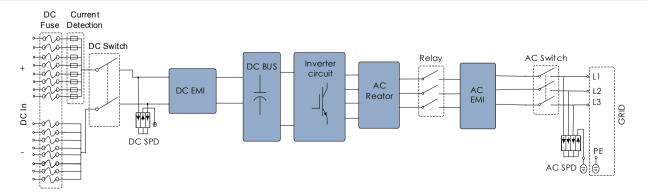
Display Graphic LCD

DC connection type H4

AC connection type Screw Clamp terminal

Certification cCSAus

Safety and EMC Standard UL 1741, IEEE 1547, IEEE1547.1, CSA C22.2#107.1-01-2001, FCC Part 15 Sub-part B, Class B Limits



SG 60KU-M





Efficient and flexible

- High flexibility for complex configurations due to 4 MPP trackers and a wide input voltage range
- High yields due to efficiency up to 98.9% and CEC efficiency of 98.6%
- Output power up to 66kVA / 60kW at power factor of 1



Grid-friendly

- Active power continuously adjustable (0~100%)
- Fulfill a variety of reactive power adjustment requirments with power factor 0.8 overexited ~ 0.8 underexited
- Integrated LVRT and HVRT function
- Includes RS-485 and Ethernet interface, compatible with all common monitoring systems



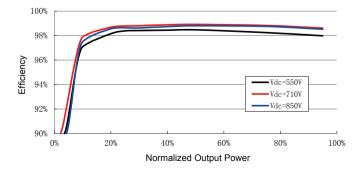
Intelligent design

- Integrated combiner box: 16 x Screw terminal pairs with DC string fuses (both positive and negative), Type Il overvoltage protection(both DC and AC), DC and AC switch, more safety and lower the system cost
- Integrated string detection function and arc fault detection



Reliable

- Product certification: UL 1741, IEEE 1547, IEEE1547.1, CSA C22.2 107.1-01-2001, FCC Part 15 Sub-part B Class B Limits
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000



Input Side Data

Max. PV input power 67500W

Max. PV input voltage 1000V

Startup voltage 300V

Stop Voltage 280V

MPP voltage range 300~950V

MPP voltage range for nominal power 550~850W

MPP voltage range for nominal power $550\sim850V/513\sim850V$ String Fuse Positive and Negative No. of MPPTs

Max. number of PV strings per MPPT

Max. PV input current

Maximum DC short circuit current 200A
Max. current for input connector 12A

Max. Cable Size 10AWG, Cu or Al

Arc Flash Detection Yes
DC Switch Yes
Insulation Detection Yes

DC Surge Arrestor Type II DIN rail surge arreste

Output Side Data

Max. AC output current

Anti-islanding protection

 Nominal AC output power
 60000W / 56000W

 Max AC output power (PF=1)
 66000W

 Max. AC output apparent power
 66000VA

Nominal AC voltage 3Ø/3W +Ground, 480Vac

AC voltage range 422~528Vac Nominal grid frequency 60Hz Grid frequency range 55~65Hz

THD <3% (Nominal power)

DC current injection <0.5%In

Power factor >0.99@default value at nominal power, (adj. 0.8 eading ~ 0.8 lagging)

80A

112A (28A/28A/28A/28A)

Max. Cable Size 0AWG, Cu or Al

AC Surge Arrestor Type II DIN rail surge arreste (40kA)

Protection

Mechanical Data

Yes Dimensions (W*H*D) 665*915*276 mm 26.2*36*10.9inch

Low Voltage Ride Through Yes Mounting method Wall bracket

DC reverse connection protection Yes Weight 70kg 154lbs

AC short circuit protection Yes
Leakage current protection Yes

Overvoltage protection Type II DIN rail surge arrester

AC switch Yes

System Data Communication

Max. efficiency 98.90% RS485 Standard CEC efficiency 98.60% Standard **Ethernet** Isolation method Transformerless I/O dry contact Standard Ingress protection rating NEMA4X Protocol Modbus

Tare Loss <1W

Operating ambient temperature range $-25\sim60^{\circ}\text{C}$ (>50 $^{\circ}\text{C}$ derating) $-13...+140^{\circ}\text{F}$ (>122 $^{\circ}\text{F}$ derating)

Allowable relative humidity range 0~100%

Cooling method Smart forced air cooling

Max. operating altitude 4000m (>3000m derated) 13,000ft (>9,800ft derated)

Display Graphic LCD

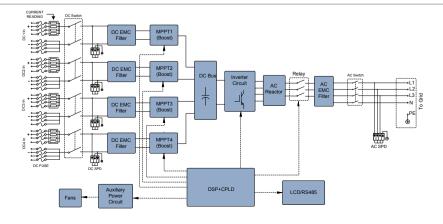
Communication RS485 / Ethernet

DC connection type Screw terminals

AC connection type Screw clamp terminal

Certification cCSAus

Safety and EMC Standard UL 1741, IEEE 1547, IEEE1547.1, CSA C22.2 107.1-01-2001, FCC Part 15 Sub-part B Class B Limits



SG40KTL





2 Efficient and flexible

- Full 36kW effective power at power factor of 0.9 due to apparent power reserves up to 39.8kVA
- Max. Efficiency at 98.3%
- Dual MPP trackers control



Intelligent design

- Reduced cabling on AC side due to higher output voltage of 480Vac
- Integrated combiner box: 8 x MC4 connector pairs with DC string fuses, Type II overvoltage protection and DC switch, more safety and lower the system cost
- Can be wall-mounted without lifting equipment, weight 65 kg



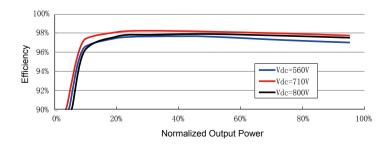
Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor 0.8 overexcited ~ 0.8 underexcited
- Includes RS-485 interface, compatible with all common monitoring systems



Reliable

• TÜV, BDEW, CGC, SGS, GB/T 19964, France Certification, India Certification



Input Side Data SG 40KTL

 Max. PV input power
 40500W

 Max. PV input voltage
 1000V

 Startup voltage
 300V

 Nominal input voltage
 710V

 MPP voltage range
 280~950V

 MPP voltage range for nominal power
 560~800V

 No. of MPPTs
 2

 Max. number of PV strings per MPPT
 4

 Max. PV input current
 664 (334/33

Max. PV input current 66A (33A/33A)

Max. current for input connector 12A

Output Side Data

Nominal AC output power 36000W

Max. AC output power (PF=1) 39800W

Max. AC output apparent power 39800VA

Max. AC output current 48A

Nominal AC voltage 3/N/PE, 277/480Vac or 3/PE, 480Vac

 AC voltage range
 422~528Vac

 Nominal grid frequency
 50Hz/60Hz

 Grid frequency range
 45~55Hz/55~65Hz

 THD
 <3% (Nominal power)</td>

DC current injection <0.5 %ln

Power factor >0.99@default value at nominal power, (adj. 0.8 leading ~ 0.8 lagging)

Protection

Anti-islanding protection Yes
LVRT Yes
DC reverse connection protection Yes
AC short circuit protection Yes
Leakage current protection Yes
DC switch Yes
DC fuse Yes

Overvoltage protection DC Type II DIN rail surge arrester (40kA)

System Data

Max. efficiency98.30%Max. European efficiency98.00%Isolation methodTransformerlessIngress protection ratingIP65Night power consumption<1W</td>

Allowable relative humidity range 0~100%

Cooling method Smart forced air cooling
Max. operating altitude 4000m (>3000m derating)

Display Graphic LCD

Communication RS485 (RJ45 connector)

DC connection type MC4

AC connection type Screw Clamp terminal

Certification VDE0126-1-1, EN62109-1, EN62109-2, BDEW, CGC, NRS 097-2-1, GB/T 19964, UTE C15-

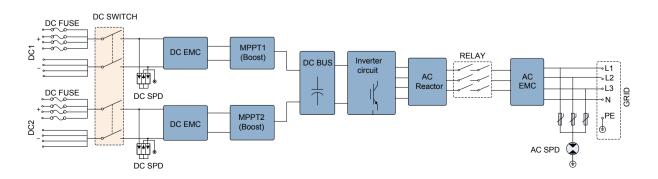
 $712\text{-}1,\,\mathsf{IEC}\,61683,\,\mathsf{IEC}\,60068\text{-}2,\,\mathsf{IEC}61727,\,\mathsf{IEC}62116,\,\mathsf{IEC}62109\text{-}1,\,\mathsf{IEC}62109\text{-}2,\,\mathsf{EN}50178,\,\mathsf{EN}60$

IEC62103, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4

Dimensions (W*H*D) 634*820*257mm
Mounting method Wall bracket
Weight 65kg

Circuit Diagram

Mechanical Data



SG 30KTL-M





Efficient and flexible

- Full 30 kW effective power at power factor of 0.9 due to apparent power reserves up to 33.12 kVA
- Photon test results "very good", with a maximum efficiency of 98.3% (Photon Profi 2-2013)
- Dual MPP trackers control



Intelligent design

- Integrated combiner box: 8 x MC4 connector pairs with DC string fuses, Type II overvoltage protection and DC switch, more safety and lower the system cost
- Can be wall-mounted without lifting equipment, weight 65 kg



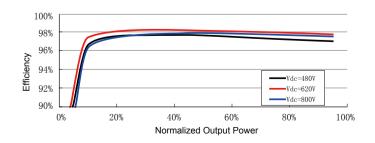
Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor 0.8 overexcited ~ 0.8 underexcited
- Includes RS-485 interface, compatible with all common monitoring systems



Reliable

 TÜV, CE, G59/3, AS4777, BDEW, VDE AR N 4105, CEI 0-21, CEI 0-16,CGC certification, SGS,France certification, India certification and Thailand certification





Input Side Data SG 30KTL-M

Max. PV input power 30800W Max. PV input voltage 1000V 300V Startup voltage Nominal input voltage 620V MPP voltage range 280~950V MPP voltage range for nominal power 480~800V No. of MPPTs 2 Max. number of PV strings per MPPT 4 Max. PV input current 66A (33A/33A)

Max. current for input connector 12A

Output Side Data

Nominal AC output power 30000W Max. AC output apparent power 33120VA Max. AC output current 48A

3/N/PE, 230/400Vac Nominal AC voltage 310~480Vac AC voltage range Nominal grid frequency 50Hz/60Hz Grid frequency range 45~55Hz/55~ 65Hz THD <3% (Nominal power)

DC current injection <0.5 %ln

>0.99@default value at nominal power, (adj. 0.8 leading ~ 0.8 lagging) Power factor

Protection

Anti-islanding protection Yes **LVRT** Yes DC reverse connection protection Yes AC short circuit protection Yes Leakage current protection Yes DC switch Yes DC fuse Yes

DC Type II DIN rail surge arrester (40KA) Overvoltage protection

System Data

Max. efficiency 98.30% Max. European efficiency 98.00%

Isolation method Transformerless IP65

Ingress protection rating Night power consumption <1W

Operating ambient temperature range -25~60°C(>45°C derating)

0~100% Allowable relative humidity range

Smart forced air cooling Cooling method Max. operating altitude 4000m (>3000m derating)

Graphic LCD Display

RS485 (RJ45 connector) Communication MC4

DC connection type

AC connection type Clamping yoke connector

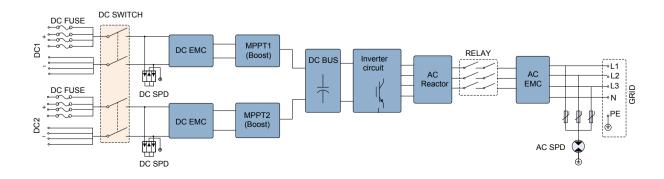
VDE0126-1-1, EN62109-1, EN62109-2, G59/3, CEI 0-21, CEI 0-16, AS/NZS 3100, AS4777.2, Certification AS4777.3, VDE-AR-N-4105, BDEW, CGC, NRS 097-2-1, UTE C15-712-1, IEC 61683, IEC 60068-2, IEC 61727, IEC 62116, IEC62109-1, IEC62109-2, EN50178, IEC62103, EN61000-

6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4

Mechanical Data

Dimensions (W*H*D) 634*820*257mm Mounting method Wall bracket 65kg Weight

Circuit Diagram



SG 30 / 36KU





Efficient and flexible

- High yields due to efficiency up to 98.5% and CEC efficiency of 98.0%
- Dual MPP trackers control



Grid-friendly

- Continuous active power control
- Reactive power control with power factor 0.8 overexcited ~ 0.8 underexcited
- Includes RS-485 interface, compatible with all common monitoring systems



Intelligent design

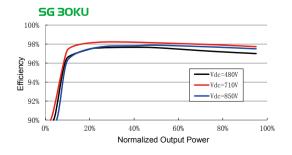
- Integrated combiner box: 10 x Screw terminal pairs with DC string fuses, Type II overvoltage protection and DC switch, more safety and lower the system cost
- Can be wall-mounted without lifting equipment, weight 65 kg
- Can be mounted vertically as well as horizontally, giving maximum design flexibility and lowering installation costs

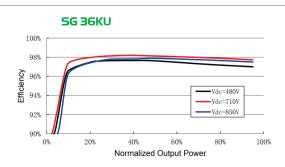


Reliable

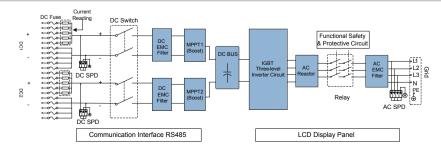
- Product certification: cCSAus, UL 1741, IEEE 1547,
 IEEE1547.1, CSA C22.2, 107.1-01-2001, FCC Part 15 Subpart B Class B Limits
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

Efficiency Curve





Input Side Data	SG 30KU	SG 36KU	
Max. PV input power	34100W	41000W	
Max. input voltage	1000Vdc		
Startup voltage	300V		
Nominal input voltage	710V		
MPP voltage range	280~950Vdc		
MPP voltage range for nominal power	480~850Vdc	560~850Vdc	
No. of MPPTs	2	555 555145	
Max. number of PV strings per MPPT	5		
Max. PV input current(DC1/DC2)	33A*2		
Max. input current for input connector	12A		
Short-circuit current of PV input	40A*2		
Output Side Data			
Nominal AC output power	30000W	36000W	
Max. AC output power(PF=1)	33240W	39800W	
Max. AC output apparent power	33240VA	39800VA	
Max. AC output current	40A	48A	
Nominal AC voltage	480Vac	10/1	
AC voltage range	422~528Vac		
Grid Connection Type	3Ø/3W or 4W+Ground		
Normal output frequency	60Hz		
Grid frequency range	57~63Hz		
THD	<3% (at nominal power)		
DC current injection	<0.5%ln		
Power factor	>0.99 default value at nominal powe	r,	
Protection	adj. 0.8 leading ~ 0.8 lagging		
Anti-islanding protection	Yes		
LVRT	Yes		
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
DC switch	Integrated		
DC fuse	Integrated		
Overvoltage protection	Type III surge arrester (optional Type	II DIN rail surge arrester)	
AC switch	Optional		
AC fuse	Optional		
System Data	- - - - - - - - - -		
Max. efficiency	98.5%		
CEC efficiency	98.0%		
Isolation method	Transformerless		
Ingress protection rating	NEMA4X		
Night power consumption	<1W		
Ambient operating temperature range	-25~ + 60°C (>45°C derating) -13~-	+140°F (>113°F derating)	
Allowable relative humidity range	0~100%	(> 1101 dordaing)	
Cooling method	Smart forced air cooling		
Max. operating altitude	_	oft(>9800ft derating)	
Display	Graphic LCD	nit/> 0000it delating/	
Communication	•		
	RS485 (optional Ethernet)		
DC connection type	Screw terminals		
AC connection type	Spring clamp terminal		
Certification	cCSAus	NA 000 0 #407 4 04 0004 500 5 115 2 7	
Safety and EMC Standard		A C22.2#107.1-01-2001, FCC Part 15 Sub-	
Mechanical Data	part B, Class B Limits		
Dimensions (W*H*D)	622*880*250mm 25*34.6*9.8inch		
Mounting method	Wall bracket or floor bracket		
wounting metrod	Wall blacket of floor blacket		



SG 20KTL





Efficient and flexible

- Full 20 kW effective power at power factor of 0.9 due to apparent power reserves up to 22.2 kVA
- Photon test results "very good", with a maximum efficiency of 98% (Photon Profi 2-2012)
- Dual MPP trackers control



Grid-friendly

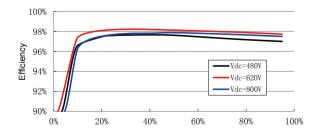
- Active power continuously adjustable (0~100%)
- Reactive power control with power factor 0.8 overexcited ~ 0.8 underexcited
- Includes RS-485 interface, compatible with all common monitoring systems



Reliable

• TÜV, CE, G59/3, AS4777, BDEW, VDE AR N 4105, CGC certification,CEI 0-21, compliance with Italian medium voltage grid requirement

Efficiency Curve



Input Side Data SG 20KTL

Max. PV input power 21000W (10500W/10500W) Max. PV input voltage 1000V Startup voltage 300V Nominal input voltage 620V MPP voltage range 280~950V MPP voltage range for nominal power 480~800V No. of MPPTs 2 Max. number of PV strings per MPPT 3

Max. PV input current 42A(21A/21A) Max. current for input connector

Output Side Data

20000W Nominal AC output power Max. AC output power (PF=1) 22200W Max. AC output apparent power 22200VA Max. AC output current 33A

Nominal AC voltage 3/N/PE, 230/400Vac AC voltage range 310~480Vac 50Hz/60Hz Nominal grid frequency Grid frequency range 47~53Hz/57~63Hz <3% (nominal power)

DC current injection <0.5 %ln

Power factor >0.99@default value at nominal power, adj.

0.8 leading ~ 0.8 lagging Protection

Anti-islanding protection Yes LVRT Yes DC reverse connection protection Yes AC short circuit protection Yes Yes Leakage current protection DC switch Yes DC fuse No Overvoltage protection Varistors

System Data

Max. efficiency 98.00% Max. European efficiency 97.30%

Isolation method Transformerless

Ingress protection rating IP65 Night power consumption <1W Operating ambient temperature range

-25~60°C (>45°C derating)

Allowable relative humidity range 0~100%

Cooling method Smart forced air cooling Max. operating altitude 4000m (> 3000m derating)

Display Graphic LCD Communication RS485 (RJ45 connector)

DC connection type

AC connection type Plug and play connector

EN62109-1, EN62109-2, EN61000-6-2, EN61000-6-3, VDE0126-Certification

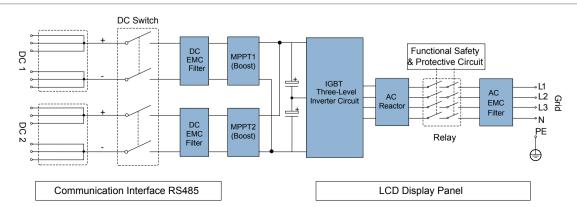
1-1, CEI 0-21, AS/NZS3100, AS4777.2, AS4777.3, VDE-

AR-N-4105, BDEW, CGC

Dimensions (W*H*D) 648*686*246mm Mounting method Wall bracket Weight 55kg

Circuit Diagram

Mechanical Data



SG 8 / 10 / 12 KTL-EC





Efficient and flexible

- Flexible design due to dual MPP tracking that is equipped to obtain full nominal power, 3-phase supply
- High energy yield due to maximum efficiency up to 98%



Intelligent design

- Low noise level and internal consumption due to natural cooling
- Integrated theft protection



Abundant Functions

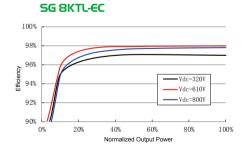
- Integrated intelligent management for household appliances (DO function), a substantial increase in the rate of self-consumption
- Integrated power management function, easy to receive the adjustable command from grid
- Extensive communication: RS-485, Ethernet, 4 digital inputs for ripple control receivers, 2 digital outputs for controlling internal consumption



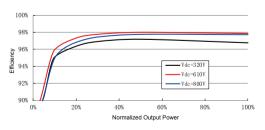
Reliable

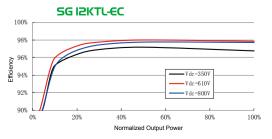
- Product certification: TÜV, VDE 0126-1-1, EN 62109-1/-2, CE, CEI 0-21 and G59/3, VDE-AR-N 4015
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

Efficiency Curve

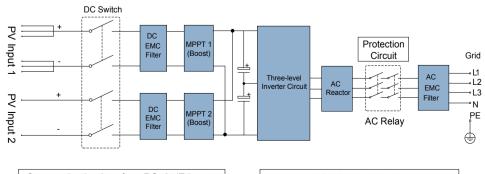


SG IOKTL-EC





Input Side Data	SG 8KTL-EC	SG IOKTL-EC	SG I2KTL-EC	
Max. PV input power	8440W	10550W	12650W	
Max. PV input voltage	1000V			
Startup voltage	250V			
lominal input voltage	610V			
IPP voltage range	200~900V			
IPP voltage range for nominal power	320~800V	320~800V	350~800V	
No. of MPPTs	2			
Max. number of PV strings per MPPT	3/1			
Max. PV input current	33A (22A/11A)	33A (22A/11A)	36A (24A/12A)	
Max. current for input connector	12A			
Short-circuit current of PV input	42A (28A/14A)	42A (28A/14A)	45A (30A/15A)	
Output Side Data				
lominal AC output power	8000W	10000W	12000W	
Max. AC output power (PF=1)	8000W	10000VV	12000W	
Max. AC output apparent power	8000VA	10526VA	13300VA	
lax. AC output current	11.6A	15.3A	19.3A	
Iominal AC voltage	3/N/PE, 230/400Vac			
AC voltage range	310~480Vac (May vary as per c	orresponding country's grid standa	ard)	
Nominal grid frequency	50Hz			
Grid frequency range	` ' ' '	esponding country's grid standard)		
THD	<3% (Nominal power)			
OC current injection	<0.5% In			
Power factor	>0.99@default value at nominal	power, (adj. 0.8 leading \sim 0.8 lagg	ging)	
Protection				
Anti-islanding protection	Yes			
_VRT	No			
OC reverse connection protection	Yes			
AC short circuit protection	Yes			
eakage current protection	Yes			
OC switch	Integrated			
OC fuse	No			
Overvoltage protection	III			
System Data				
Max. efficiency	98.0%	98.0%	98.0%	
Max. European efficiency	97.5%	97.6%	97.5%	
solation method	Transformerless			
ngress protection rating	IP65			
light power consumption	<1W			
Operating ambient temperature range	-25~60°C (>45°C derating)			
Allowable relative humidity range	0~100%			
Cooling method	Natural cooling			
loise	≤29dB	≤29dB	≤35dB	
fax. operating altitude	2000m			
Display	Graphic LCD			
Communication	$2 \times$ Ethernet, $2 \times$ RS485 (RJ45 cd	onnector),4 \times Digital Inputs, 2 \times Digital	tal outputs	
OC connection type	MC4			
AC connection type	Plug and play connector			
Certification	VDE0126-1-1, EN62109-1, EN62	109-2, G83/1, VDE-AR-N-4105, CEI	0-21	
Mechanical Data				
Dimensions (W*H*D)	535*710*220mm			
Nounting method	Wall bracket			
Veight	36kg	36kg	45kg	
roigin	oong	Jung	1 5Ng	



Communication Interface RS485/Ethernet

LCD Display Panel

SG 3 / 4 / 5 / 6KTL-€C





Efficient and flexible

- Flexible design due to dual MPP tracking that is equipped to obtain full nominal power, 3-phase supply
- High energy yield due to maximum efficiency up to 98.1%



Intelligent design

- Low noise level and internal consumption due to natural cooling
- Integrated theft protection



Abundant Functions

- Access to Home WiFi system and enjoy cloud services via smart phones
- Integrated power management function, easy to receive the adjustable command from grid
- Extensive communication: RS-485, Ethernet, WLAN / WiFi, 4 digital inputs for ripple control receivers

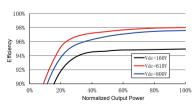


Reliable

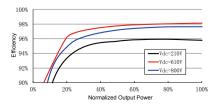
- Product certification: TÜV, VDE 0126-1-1, EN 62109-1/-2, CE, G83/1, VDE-AR-N 4105
- Manufacturer certification: ISO 9001, ISO 14001, **OHSAS 18000**

Efficiency Curve

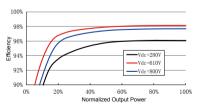
SG 3KTL-EC



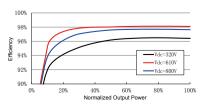
SG 4KTL-EC



SG 5KTL-EC



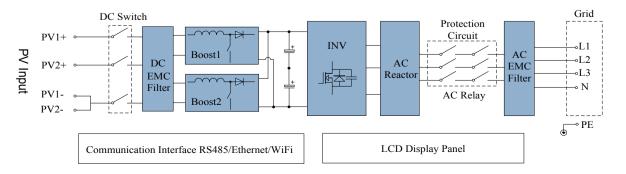
SG 6KTL-EC



Input Side Data	SG 3KTL-EC	SG 4KTL-EC	SG 5KTL-EC	SG 6KTL-EC
Max. PV input power	3191W	4255W	5265W	6312W
Max. PV input voltage	1000V			
Startup voltage	200V	200V	250V	250V
Nominal input voltage	610V			
MPP voltage range	140~900V	140~900V	200~900V	200~900V
MPP voltage range for nominal power	160~800V	210~800V	280~800V	320~800V
No. of MPPTs	2			
Max. number of PV strings per MPPT	1/1			
Max. PV input current	19.8A (9.9A/9.9A)			
Max. current for input connector	12A			
Short-circuit current of PV input	24.8A(12.4A/12.4A)			
Output Side Data				
Nominal AC output power	3000W	4000W	5000W	6000W
Max. AC output power (PF=1)	3000W	4000W	5000W	6000W
Max. AC output apparent power	3000VA	4000VA	5000VA	6000VA
Max. AC output current	4.4A	5.8A	7.3A	8.7A
Nominal AC voltage	3/N/PE,230/400Vac			
AC voltage range		ry as per corresponding cou	untry's grid standard)	
Nominal grid frequency	50Hz	, , , ,	, ,	
Grid frequency range		s per corresponding countr	y's grid standard)	
THD	<3% (Nominal power	·	/	
DC current injection	<0.5% In			
Power factor		at nominal power, (adj. 0.8	leading~0.8 agging)	
Protection				
Anti-islanding protection	Yes			
LVRT	No			
DC reverse connection protection	Yes			
AC short circuit protection	Yes			
Leakage current protection	Yes			
DC switch	Integrated			
DC fuse	No			
Overvoltage protection	III			
System Data				
Max. efficiency	98.0%	98.1%	98.1%	98.1%
Max. European efficiency	96.2%	96.8%	97.2%	97.3%
Isolation method	Transformerless			
Ingress protection rating	IP65			
Night power consumption	<1W			
Operating ambient temperature range	-25~60°C (>45°C der	ating)		
Allowable relative humidity range	0~100%	5,		
Cooling method	Natural cooling			
Noise	≤29dB			
Max. operating altitude	2000m			
Display	Graphic LCD			
Communication	•	5 connector), 4 × Digital Inp	uts, WiFi	
DC connection type	MC4	,, · · · · - · · · · · · · · · · · · · ·	,	
AC connection type	Plug and play connec	tor		
Certification		09-1, EN62109-2,G83/1, VDI	E-AR-N-4105	
Mechanical Data	·			
Dimensions (W*H*D)	403*518*190mm			
Mounting method	Wall bracket			
- Woight	001.0			

22kg

Weight



SG2K / 2K5 / 3K / 3K6 / 4KTL-S





Efficient and flexible

- Max. input voltage 600V, compatible with different PV panel and string design
- Only 9kg, easy for handling and installation
- Max. Efficiency at 98.0%



Reliable

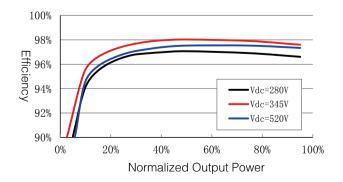
- Product certification: TÜV, CE, AS4777, AS/NZS 3100, VDE AR N 4105
- Manufacturer certification: ISO 9001, ISO 14001, **OHSAS 18000**



Intelligent design

- Ultra-quiet, suitable for residential use
- Access to home WiFi system, easy to enjoy the online monitoring
- Wireless communication design, intelligent mobile phone local and remote monitoring

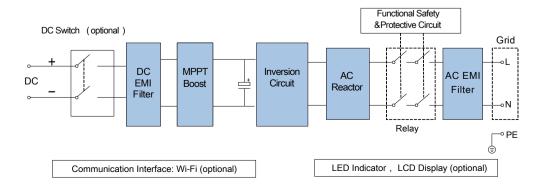
Efficiency Curve



Input Side Data	SG2KTL-S	SG2K5TL-S	SG3KTL-S	SG3K6TL-S	SG4KTL-S		
Max. PV input power Max. PV input voltage	2300W 600V	2800W	3300W	3900W	4300W		
Startup voltage	150V						
Nominal input voltage	345V						
MPP voltage range	125~560V						
MPP voltage range for nominal power	210~520V	240~520V	280~520V	220~520V	240~520V		
No. of MPPTs	1	240°-320V	200°-320V	220°-320V	2401-3201		
Max. number of PV strings per MPPT	1	1	1	2	2		
Max. PV input current	11A	11A	11A	18A	18A		
Max. current for input connector	20A						
Output Side Data							
Nominal AC output power	2000W	2490W	3000W	3680W	4000W		
Max. AC output power (PF=1)	2150W	2490W	3150W	3680W	4210W		
Max. AC output apparent power	2150VA	2490VA	3150VA	3680VA	4210VA		
Max. AC output current	9.5A	11.5A	13.7A	16.0A	18.3A		
Nominal AC voltage	230Vac (single phase)						
AC voltage range	180~276Vac						
Nominal grid frequency	50Hz/60Hz						
Grid frequency range	45~55Hz/55~65Hz						
THD	<3% (nominal power)						
DC current injection	<0.5 %ln						
Power factor	>0.99@default value at	nominal power, (adj.	0.8 leading ~ 0.8 lag	ging)			
Protection							
Anti-islanding protection	Yes						
LVRT	No						
DC reverse connection protection	Yes						
AC short circuit protection	Yes						
Leakage current protection	Yes						
DC switch	Optional						
DC fuse	No						
Overvoltage protection	Varistors						
System Data	00.000/						
Max. efficiency	98.00%	07.400/	07.500/	07.500/	07.500/		
Max. European efficiency	97.00% Transformerless	97.40%	97.50%	97.50%	97.50%		
Isolation method							
Ingress protection rating Night power consumption		IP65					
Operating ambient temperature range		<1W					
Allowable relative humidity range	0~100%	-25~60°C (>45°C derating)					
Cooling method	Natural cooling						
Max. operating altitude	4000m (>2000m deratir	aa)					
Display	LED , LCD (optional)						
Communication	WiFi (optional)						
DC connection type	MC4						
AC connection type	Plug and play connecto						
Certification	IEC61000-6-2, IEC61000-6-3, AS/NZS3100, AS4777.2, AS4777.3, VDE-						
Mechanical Data	AR-N-4105, VDE0126-1-1, CE,G83/2, C10/11, EN50438, CGC						
Dimensions (W*H*D)	300*370*125 mm						
Mounting method	Wall bracket						
~							

Weight

9kg



SG3K / 3K6 / 4K6 / 5KTL-D





Efficient and flexible

- Max. input voltage 600V, compatible with different PV panel and string design
- Dual MPPT, compatible with different residential rooftop system design
- Only 11kg, easy for handling and installation
- Max. Efficiency at 98.0%



Reliable

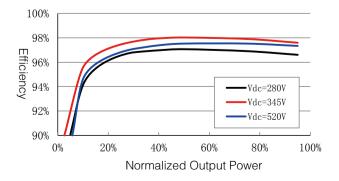
- Product certification: TÜV, CE, AS4777, AS/NZS 3100, **VDE AR N 4105**
- Manufacturer certification: ISO 9001, ISO 14001, **OHSAS 18000**



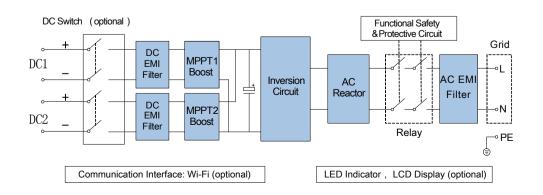
Intelligent design

- Ultra-quiet, suitable for residential use
- Access to home WiFi system, easy to enjoy the online monitoring
- Wireless communication design, intelligent mobile phone local and remote monitoring

Efficiency Curve



Input Side Data	SG3KTL-D	SG3K6TL-D	SG4K6TL-D	SG5KTL-D
Max. PV input power Max. PV input voltage Startup voltage Nominal input voltage MPP voltage range MPP voltage range for nominal power No. of MPPTs Max. number of PV strings per MPPT Max. PV input current	3300W 600V 150V 345V 125~560V 150~520V 2 1	3900W 180~520V	4900W 220~520V	5400W 240~520V
Max. current for input connector Output Side Data	20A			
Nominal AC output power Max. AC output power (PF=1) Max. AC output apparent power Max. AC output current Nominal AC voltage AC voltage range Nominal grid frequency Grid frequency range THD DC current injection Power factor Protection	3000W 3150W 3150VA 13.7A 230Vac (single phase) 180~276Vac 50Hz/60Hz 45~55Hz/55~65Hz <3% (nominal power) <0.5 %In >0.99@default value at not	3680W 3680W 3680VA 16.0A	4600W 4600W 4600VA 20A	5000W/4600W *(Australia) 5000W 5000VA 21.7A/20A *(Australia)
Anti-islanding protection LVRT DC reverse connection protection AC short circuit protection Leakage current protection DC switch DC fuse Overvoltage protection System Data	Yes No Yes Yes Yes Optional No Varistors			
Max. efficiency Max. European efficiency Isolation method Ingress protection rating Night power consumption Operating ambient temperature range Allowable relative humidity range Cooling method Max. operating altitude Display Communication DC connection type AC connection type Certification Mechanical Data		3, AS/NZS3100, AS4777.2, CE,G83/2, C10/11, EN50438		
Dimensions (W*H*D) Mounting method Weight	360*390*133 mm Wall bracket 11kg			



* When the country parameter of SG5KTL-D is set to Australia, nominal output is 4600W and maximum output current is 20A.





Accessory & Monitoring Products



SunBox™ PVS-8M / PVS-16M

PV combiner box





The product applicable to Europe, Asia, Africa and manual installation. design for a lardge-scale grid-connected PV system. It is a general practice to install a DC combining device in between the PV modules and inverters for the sake of minimizing the cable distance between them, facilitating maintenance and improving reliability. With many years of PV Grid-connected system design experience, our PVS PV array combiner box series is specially-designed for meeting the need of high performance and high reliability of PV systems.



Flexible

- IP65 protection class,meet the need of outlook installation and usage
- Self-powered power supply with SPD protection
- Standard output terminal for copper core cable 70mm2 (MAX.95mm2)
- MC4 output terminal (requires optional accessory)



Efficient and Safe

- Indepentent patent technology
- PV dedicated DC fuses, both positive and negative
- PV dedicated high-voltage SPD
- Fuse boxes with spacer and special Bus part with protection
- String current and voltage abnormal alarm
- SPD failure alarm



Qualified

• CGC certified

Parameters	PVS-8M	PVS - 16IVI	Standard Accessories	
MAX.PV array voltage	1000Vdc	1000Vdc	DC circuit breaker	Yes
MAX.PV array parallet inputs	8	16	PV dedicated SPD	Yes
Rate fuse current for each	10A/15A	10A/15A	PV Self-Powered	Yes
string(replaceable)			Current monitor for each string	Yes
Input terminal type	4~6 mm²	4~6 mm ²	and PV voltage monitor	
Output terminal type	50mm ²	70mm ²	SPD failure monitoring	Yes
Protection class	IP65	IP65		
Environment temperature	-25℃~+60℃	-25℃~+60℃	Optional Accessory	
Environment humidity	0~95%	0~95%	Optional According	
Dimensions(W*H*D)	670*570*170mm	720*590*170mm	Monitor for Circuit breaker state	Optional
Weight	25kg	31kg		
		_		

SolarInfo[™]Logger **Data logger**

Logger is used for PV plants in the collection, recording status, operational information of inverters, PVS and EM.



Flexible

- Integrated SolarInfo Bank for remote monitoring the PV plant from any PC or smart phone around the world.
- Multiple communication connections: R\$485, R\$232, Ethernet. Interconnecting devices quickly
- Real-time clock
- Communication with up to 30 devices
- Support external memory (Micro SD Card, 2GB)
- Support BDEW power scheduling
- Wall or guide rail attachable, easy for on-site installation and maintenance



Efficient and Safe

• All ports with electrical isolation protection, switch input port isolation voltage is 1000V, RS485 port isolation voltage is 1000V



Qualified

- Industrial design, multilevel gray LCD screen with high
- High flexibility, beautiful and durable touch sensor keys



Communication

Inverter communication RS485 10/100Mbit Ethernet/RS232/RS485 PC communication

Max. Communication Range

RS485/Ethernet/RS232 1200m/100m/5m

Interface Design

RS485 3 RS232 1 Digital input port Digital output port

Analog input port 2 (0~10VDC/4~20mA)

Ethernet port

Power Supply

Power module AC-DC power adapter 100~240VAC (50/60Hz) Adapter input voltage Typ.3W/max.10W Power consumption

5VDC Logger input voltage

Environmental Conditions

Ambient temperature -20~60°C Humidity 0%~95%, no condensing

Memory

Internal 4MB circulating memory MicroSD card, 2GB (optional) External

General data

Dimensions (W*H*D) 205*132*38mm Weight 550g Usable range Indoors

Installation options DIN rail installation, wall mounting

Display LCD, LED

Language versions-Chinese, English, German, Italian

software/manual

Accessories

MicroSD card 2GB Optional

SolarInfo[™] Bank

Online PV plant monitoring website



www.solarinfobank.com

SolarInfo Bank is a remote data monitoring system of PV plant. Whenever and wherever you can access the PV Data, which including PV power and profits, CO2 emissions benefits, equipment running status, real-time and historical data,etc. Multiple formats of charts are available for quick and easy review of the operating conditions and performance of the PV plant.



Easy

- Via Wi-Fi, Ethernet and other network mode, easy access
- Support browsers, mobile terminal browser
 access
- Operation is simple, practical content



Quality

- Friendly interface, power access, easy to use, low maintenance costs
- Whenever and wherever you can understand the power plant operating conditions
- Feature-rich, providing comparative analysis of various data template
- Various reports fully meet the needs of the daily management



Efficient

- Information browsing fast, timely and comprehensive understanding of the power plant information
- Unattended, is a powerful assistant manage your station
- 24-hour monitoring

Technical Data

Language English, German, Japanese, Italian, Chinese, French

Browser Internet Explorer as of version 8, Firefox as of version 5, Google Chrome as of version 14,

Safari as of version 5, Opera as of version 11

APP IOS 6.x and later, Android 4.x and later

Data transmission interval 5 mins

Fault alert Timely notify through e-mails

Report Custom daily report, weekly report, monthly report and yearly r eport through regular e-mails

Data output format CSV, EXCEL, PDF

Display mode Display the data of plant and equipment by charts and forms

Support Device Inverter EM Combiner box Meter etc

Advanced features Annual analysis comparing unit, investment income compared

Power management, device management, power generation compensation, full-screen

display, a custom report

SolarInfo[™] **Home**Online Household PV Monitoring system



Product Overview

• SolarInfo Home for House PV Plant Monitoring systems, which is characterized by ease of deployment, maintenance-free, extremely easy to use. You can access SolarInfo Home data via computer, mobile phone remote, you can also use mobile phones and other mobile terminals to obtain data directly through an inverter to run wifi locally. A variety of ways to access data, to meet the different network environments, to provide you with comprehensive data support.



Qualified

- User-friendly, easy to use, low maintenance costs
- Whenever and wherever you can access the PV Data



Technical Data

Language English, German, Japanese, Italian, Chinese, French

Browser Internet Explorer as of version 8, Firefox as of version 5, Google Chrome as of version 14, Safari as of

version 5, Opera as of version 11

APP IOS 6.x and later, Android 4.x and later

Data transmission interval 5 mins,

Fault alert Timely notify through e-mails

Report Custom daily report, weekly report, monthly report and yearly r eport through regular e-mails

Data output format CSV, EXCEL, PDF

Display mode Display the data of plant and equipment by charts and forms

Support Device Inverter





Reference & Service





Glodal Reference

By the end of 2014, over 1.5GW of Sungrow's PV inverters were deployed in various market of Spain, Germany, Italy, Belgium, Australia and many other countries overseas.

In Europe

- 8.3MW, Berlin, Germany
- 5MW, Tenerife, Spain
- 18MW, Rome, Italy
- 10MW, Antwerp, Belgium
- 12MW, Sardinia, Italy
- 3MW, Italy
- 10MW, Domsühl, Germany

In America

- 20MW, Lancaster, CA, USA
- 5MW, Carver, USA
- 2MW, Chicago, IL, USA
- 1MW, Imperial Valley, CA, USA
- 1MW, Ontario, Canada

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In Southeast Asia

- 2MW, Bali, Indonesia
- 5MW, Rajasthan, India

- 2.4MW, Friedland & Neuheilenbach, Germany
- 10MW, Domsühl, Germany
- 8.3MW, Berlin, Germany
- 8MW, Hamburg, Germany
- 50MW in total, Greece
- 3.6MW Milan, Italy
- 1.8MW, Mozzecane, Italy
-

In China

- 520MW, Qinghai
- 6.68MW, Hongqiao, Shanghai
- 50MW, Baosteel, Shanghai



> 5MW, Carver, USA



> 1MW, Ontario, Canada



> 2MW, Bali, Indonesia



> 5MW, Tenerife, Spain



> 18MW, Rome, Italy



> 10MW, Antwerp, Belgium



> 8.3MW, Berlin, Germany



> 12MW, Sardinia, Italy



> 3MW, Italy



> 2MW, Chicago, IL, USA



> 2.4MW, Friedland & Neuheilenbach, Germany



> 10MW, Domsühl, Germany



> 5MW, Maniago, Italy



> 1.8MW, Mozzecane, Italy



> 20MW, Lancaster, CA, USA



> 50kW, Vianen, Netherlands



6.68MW, Hongqiao Shanghai
 PV rooftop power system comprehensive transportation hub



50MW Baosteel, Shanghai PV rooftop power system



520MW, Gonghe, Qinghai
 The world's largest PV plant

SUNGROW Service

We are committed to the clean and efficient energy, and to bring more green electricity to all mankind

We have a thorough understanding of customers' needs to provide them with comprehensive and perfect services:



Consulting services:

Sungrow has set up marketing service agencies in France, Germany, Italy, Austria, the United States, Canada, Australia and other countries to provide customers with professional and convenient project advisory services.



System design services:

Our senior system engineers have abundant PV power generation system design experience for years, who's able to develop tailored solutions accurately. The system design profile, budget, power generating capacity, and data as carbon dioxide emissions will be took into account and provided to the customer as well.



Quality assurance services:

We pursue high quality all the time. Every product is under quality inspections during manufacturing process, and needs to pass the complete machine test before shipment to ensure that it can be stably operated. Detailed and rapid warranty services are guaranteed by on-line monitoring system, hardware/software upgrades, regular inspection and training.



Training services:

We provide customers with comprehensive, professional technical training and guidance by delivering the knowledge of power system and equipment's daily use and maintenance.



On-site service:

Our technical service engineers can provide customers with professional and rapid installation and debugging services according to requirements, to ensure that customers' projects would be successfully completed and connected to the grid perfectly.

















Green and Effective

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