

# SG2KTL-S/SG3KTL-S

String Inverter



### Suitable for Household Use

- 30dB noise level, quieter than a house refrigerator
- Easy installation
- Optional Wi-Fi monitoring



### User Friendly

- Good grid connect features
- Flexible communication with multiple communication methods



Input Side Data	SG2KTL-S	SG 3KTL-S
Max. PV input power	3000W	4000W
Max. PV input voltage	600V	
Startup voltage	120V	
Nominal input voltage	350V	
MPP voltage range	110~560V	
MPP voltage range for nominal power	210~480V	310~480V
No. of MPPTs	1	
Max. number of PV strings per MPPT	1	
Max. PV input current	10A	
Max. current for input connector	12A	

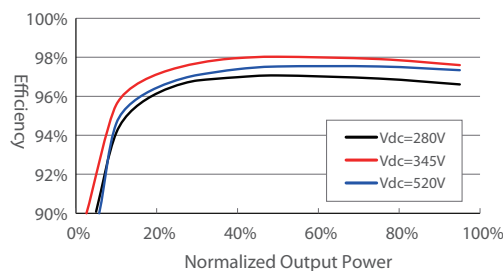
Output Side Data	SG2KTL-S	SG 3KTL-S
Nominal AC output power	2000W	3000W
Max. AC output power (PF=1)	2000W	3000W
Max. AC output apparent power	2000VA	3000VA
Max. AC output current	9.1A	13.6A
Nominal AC voltage	220Vac, 230Vac (Single phase)	
AC voltage range	180~276Vac (May vary as per corresponding country's grid standard)	
Nominal grid frequency	50Hz/60Hz	
Grid frequency range	45~55Hz/55~65Hz (May vary as per corresponding country's grid standard)	
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)	

Protection	SG2KTL-S	SG 3KTL-S
Anti-islanding protection	Yes	
LVRT	No	
DC reverse connection protection	No	
AC short circuit protection	Yes	
Leakage current protection	Yes	
DC switch	Optional	
DC fuse	No	
Overvoltage protection	Varistors	

System Data	SG2KTL-S	SG 3KTL-S
Max. efficiency	97.40%	97.50%
Max. European efficiency	96.60%	97.00%
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	Natural cooling	
Max. operating altitude	4000m (>2000m derating)	
Display	LED , LCD (optional)	
Communication	WiFi (optional)	
DC connection type	MC4	
AC connection type	Plug and play connector	
Certification	IEC61000-6-2, IEC61000-6-3, AS/NZS3100, AS4777.2, AS4777.3, IEC62109-1, IEC62109-2, VDE-AR-N-4105 , VDE0126-1-1, G83/2, C10/11, EN50438, NB/T 32004, GB/T29319, KS C8564:2015, CE, CGC, TUV, SAA, KTC	

Mechanical Data	SG2KTL-S	SG 3KTL-S
Dimensions (W*H*D)	300*370*125 mm	
Mounting method	Wall bracket	
Weight	9kg	

### Efficiency Curve



# SG3KTL-D/SG5KTL-D

String Inverter



## Suitable for Household Use

- 30dB noise level, quieter than a house refrigerator
- Easy installation
- Optional Wi-Fi monitoring



## User Friendly

- Good grid connect features
- Flexible communication with multiple communication methods



Input Side Data	SG3KTL-D	SG5KTL-D
Max. PV input power	4000W	6500W
Max. PV input voltage	600V	
Startup voltage	120V	
Nominal input voltage	350V	
MPP voltage range	110~560V	
MPP voltage range for nominal power	150~480V	260~480V
No. of MPPTs	2	
Max. number of PV strings per MPPT	1	
Max. PV input current	20A(10A/10A)	
Max. current for input connector	24A(12A/12A)	

Output Side Data	SG3KTL-D	SG5KTL-D
Nominal AC output power	3000W	5000W/4990W *(Australia)
Max. AC output power (PF=1)	3000W	5000W/4990W *(Australia)
Max. AC output apparent power	3000VA	5000W/4990W *(Australia)
Max. AC output current	13.6A	21.7A(for 230Vac),22.7A(for 220Vac)
Nominal AC voltage	220Vac, 230Vac (Single phase)	
AC voltage range	180~276Vac (May vary as per corresponding country's grid standard)	
Nominal grid frequency	50Hz/60Hz	
Grid frequency range	45~55Hz/55~65Hz (May vary as per corresponding country's grid standard)	
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)	

Protection	SG3KTL-D	SG5KTL-D
Anti-islanding protection	Yes	
LVRT	No	
DC reverse connection protection	No	
AC short circuit protection	Yes	
Leakage current protection	Yes	
DC switch	Optional	
DC fuse	No	
Overvoltage protection	Varistors	

System Data	SG3KTL-D	SG5KTL-D
Max. efficiency	97.40%	97.50%
Max. European efficiency	96.90%	97.10%
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	Natural cooling	
Max. operating altitude	4000m (>2000m derating)	
Display	LED , LCD (optional)	
Communication	WiFi (optional)	
DC connection type	MC4	
AC connection type	Plug and play connector	
Certification	IEC61000-6-2, IEC61000-6-3,AS/NZS3100,AS4777.2,AS4777.3,IEC62109-1,IEC62109-2,VDE-AR-N-4105 ,VDE0126-1-1,G83/2,C10/11,EN50438,NB/T 32004,GB/T29319,KS C8564:2015,CE,CGC,TUV,SAA,KTC	

Mechanical Data	SG3KTL-D	SG5KTL-D
Dimensions (W*H*D)	360*390*133 mm	
Mounting method	Wall bracket	
Weight	11kg	

Note:When the SG5KTL-D type countries choose to Australia, rated output power is 4990W(VA).

### Efficiency Curve

