

NEW

SG2K5 / 3K / 3K5 / 4K / 4K6 / 5KTL



Flexible

- Dual MPPT, compatible different residential rooftop system design
- Max. input voltage 600V, compatible with different PV panel and string design



Intelligent

- Access to home WIFI system, easy to enjoy the online monitoring
- wireless communication design, intelligent mobile phone local and remote commissioning



Easy

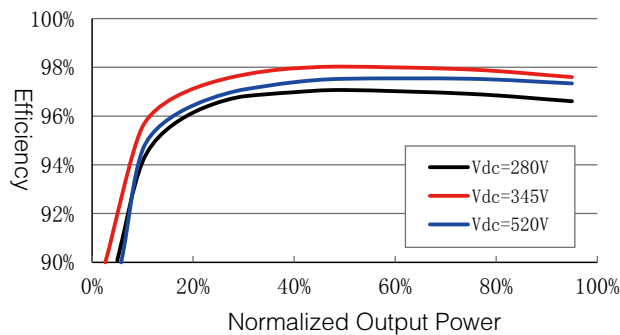
- Only 9 kg of 4 kw inverter, easy to handling and installation
- Easy replacement and transportation, reduce the trouble of service



Qualified

- TÜV, CE, AS4777, AS/NZS 3100, VDE AR N 4105, certification

Efficiency Curve



Input Side Data	SG2K5TL-S	SG3KTL-S	SG3K5TL-S	SG4KTL-S	SG4K6TL-D	SG5KTL-D
Max. PV input power	2800W	3300W	3800W	4300W	4900W	5400W
Max. PV input voltage	600V	600V	600V	600V	600V	600V
Startup voltage	150V	150V	150V	150V	150V	150V
Nominal input voltage	345V	345V	345V	345V	345V	345V
MPP voltage range	125~560V	125~560V	125~560V	125~560V	125~560V	125~560V
MPP voltage range for nominal power	240~520V	280~520V	210~520V	240~520V	220~520V	240~520V
No. of MPPTs	1	1	1	1	2	2
Max. number of PV strings per MPPT	1	1	2	2	1	1
Max. PV input current	11A	11A	18A	18A	22A(11A/11A)	22A(11A/11A)
Max. current for input connector	20A	20A	20A	20A	20A	20A

Output Side Data	SG2K5TL-S	SG3KTL-S	SG3K5TL-S	SG4KTL-S	SG4K6TL-D	SG5KTL-D
Nominal AC output power	2500W	3000W	3500W	4000W	4600W	5000W
Max AC output power (PF=1)	2500W	3000W	3500W	4000W	4600W	5000W
Max. AC output apparent power	2650VA	3150VA	3680VA	4210VA	4600VA	5000VA
Max. AC output current	11.5A	13.7A	16.0A	18.3A	20A	21.7A
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 %In					
Power factor	>0.99@default value at nominal power, (adj. 0.8 overexcited ~ 0.8 underexcited)					

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

System Data	
Max. efficiency	98.00%
Max. European efficiency	97.40%
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% no condensing
Cooling method	Natural cooling
Max. operating altitude	4000m (>3000m derating)
Display	LED
Communication	WiFi
DC connection type	MC4
AC connection type	Screw terminals
Certification	IEC61000-6-2, IEC61000-6-3, AS/NZS3100, AS4777.2, AS4777.3, VDE-AR-N-4105, VDE0126-1-1

Mechanical Data						
Dimensions (W*H*D)	300*370*125 mm	300*370*125 mm	300*370*125 mm	300*370*125 mm	360*390*133 mm	360*390*133 mm
Mounting method	Wall bracket					
Weight	9kg	9kg	9kg	9kg	13kg	13kg

Circuit Diagram (SG4K6/5KTL-D)

