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

SUNGROW

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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%

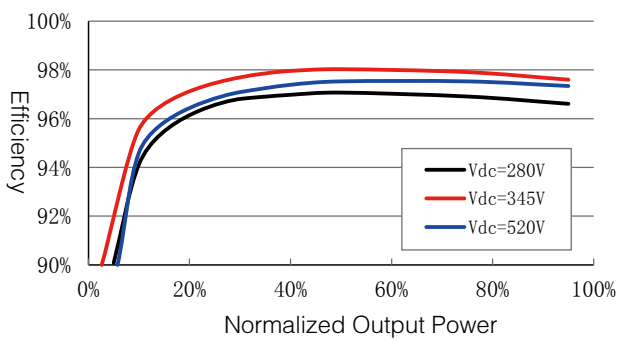
Reliable

- 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	2300W	2800W	3300W	3900W	4300W
Max. PV input voltage	600V				
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				
Max. number of PV strings per MPPT	1	1	1	2	2
Max. PV input current	11A	11A	11A	18A	18A (9A/9A)
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 %In				
Power factor	>0.99@default value at nominal power, (adj. 0.8 leading ~ 0.8 lagging)				
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					
Max. efficiency	98.00%				
Max. European efficiency	97.00%	97.40%	97.50%	97.50%	97.50%
Isolation method	Transformerless				
Ingress protection rating	IP65				
Night power consumption	<1W				
Operating ambient temperature range	-25~60℃ (>45℃ 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, VDE-AR-N-4105, VDE0126-1-1, CE,G83/2, C10/11, EN50438, CGC				
Mechanical Data					
Dimensions (W*H*D)	300*370*125 mm	300*370*125 mm	300*370*125 mm	300*370*125 mm	360*390*133mm
Mounting method					
Weight	9kg	9kg	9kg	9kg	11kg

Circuit Diagram

