

NEW

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

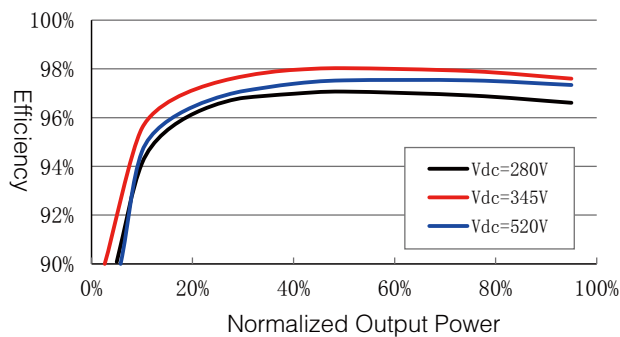
- Product certification: TÜV, CE, AS4777, AS/NZS 3100, VDE AR N 4105
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000



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	3300W	3900W	4900W	5400W
Max. PV input voltage	600V			
Startup voltage	150V			
Nominal input voltage	345V			
MPP voltage range	125~560V			
MPP voltage range for nominal power	150~520V	180~520V	220~520V	240~520V
No. of MPPTs	2			
Max. number of PV strings per MPPT	1			
Max. PV input current	22A (11A/11A)			
Max. current for input connector	20A			
Output Side Data				
Nominal AC output power	3000W	3680W	4600W	5000W/4600W *(Australia)
Max. AC output power (PF=1)	3150W	3680W	4600W	5000W
Max. AC output apparent power	3150VA	3680VA	4600VA	5000VA
Max. AC output current	13.7A	16.0A	20A	21.7A/20A *(Australia)
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	97.50%			
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, VDE-AR-N-4105, VDE0126-1-1, CE,G83/2, C10/11, EN50438, CGC			
Mechanical Data				
Dimensions (W*H*D)	360*390*133 mm			
Mounting method	Wall bracket			
Weight	11kg			

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

Circuit Diagram

