

**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

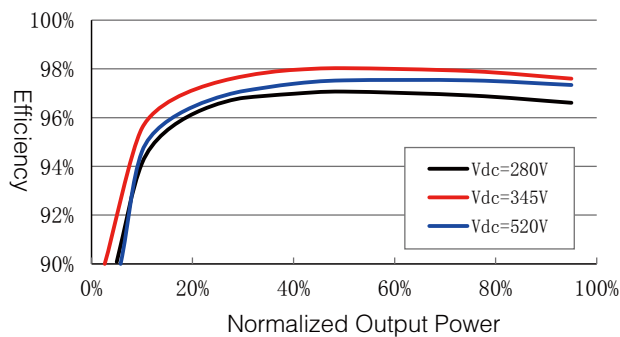
- Product certification: TÜV, CE, AS4777, AS/NZS 3100, VDE AR N 4105
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000



### 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			
<b>Output Side Data</b>				
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)			
<b>Protection</b>				
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			
<b>System Data</b>				
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			
<b>Mechanical Data</b>				
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

