SG3K / 3K6 / 4K6 / 5KTL-D



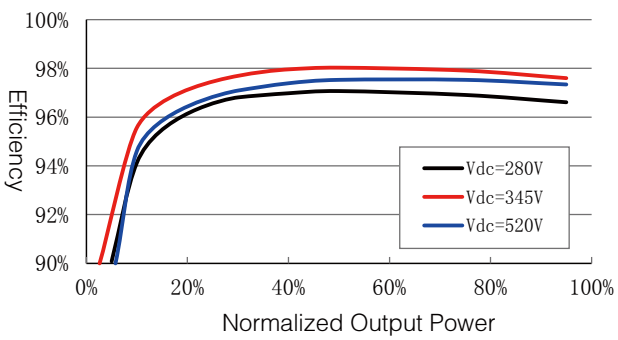
Suitable for household use

- 30dB noise level, quieter than a household refrigerator
- Easy installation
- Optional wifi monitoring

High power yield

- Max. efficiency 98%

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 reverseconnectionprotection	No
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 ℃ (>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, CEI 0-21, 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

