

SG3KTL-D/SG5KTL-D

String Inverter



Flexible

- Dual MPPT, compatible with different residential rooftop system design(Only - D series products)
- Max. input voltage 600V, compatible with different PV panel and string design



Easy

- Only 11kg of 3 kW inverter, easy to handle and install
- Easy replacement and transportation, reduce the trouble of service



Intelligent

- Intelligent Wi-Fi communication, flexible for various applications
- Intelligent local access via the APP, convenient to view the data any time
- Intelligent cloud monitoring to enable the centralized operation, management and maintenance



Qualified

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



Input Side Data

	SG3KTL-D	SG5KTL-D
Max. PV input power	4000W	6500W
Max. PV input voltage	600V	
Startup voltage	120V	
Nominal input voltage	360V	
MPP voltage range	110 - 560V	
MPP voltage range for nominal power	150 - 480V	260 - 480V
No. of MPPTs	2	
Max. number of PV strings per MPPT	1	
Max. PV input current	20A(10A/10A)	
Max. current for input connector	24A(12A/12A)	

Output Side Data

Nominal AC output power	3000W	5000W/4990W (Australia)*
Max. AC output power (PF=1)	3000W	5000W/4990W (Australia)*
Max. AC output apparent power	3000VA	5000W/4990W (Australia)*
Max. AC output current	13.6A	21.7A(for 230Vac), 22.7A(for 220Vac)
Nominal AC voltage	220Vac, 230Vac (Single phase)	
AC voltage range	180 - 276Vac (May vary as per corresponding country's grid standard)	
Nominal grid frequency	50Hz/60Hz	
Grid frequency range	45 - 55Hz/55 - 65Hz (May vary as per corresponding country's grid standard)	
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	No
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Optional
DC fuse	No
Overvoltage protection	Varistors

System Data

Max. efficiency	97.40%	97.50%
Max. European efficiency	96.90%	97.10%
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	2000m	
Display	LED indicator, LCD (optional, see communication options below)	
Communication	Optional: eShow (LCD), eShow+ (LCD + Wi-Fi), ZE100 (LCD + Wi-Fi + energy meter for zero-export), GPRS (for China & Europe), Remark: Built-in earth fault alarm on eShow, eShow+ and ZE100	
DC connection type	MC4	
AC connection type	Plug and play connector	
Certification	IEC61000-6-2, IEC61000-6-3 AS/NZS3100, AS4777.2 , AS4777.3 , IEC62109-1, IEC62109-2, VDE-AR-N-4105, VDE0126-1-1, G83/2 , G59/3, C10/11, EN50438, NB/T 32004, GB/T29319 KS C8564:2015.; CE, CGC, TUV, SAA, KTC	

Mechanical Data

Dimensions (W*H*D)	360*390*133 mm
Mounting method	Wall-mounting bracket
Weight	11kg

* Note:When the SG5KTL-D type countries choose to Australia, rated output power is 4990W(VA).

Efficiency Curve

