

SG3KTL-D/SG5KTL-D

String Inverter



Suitable for Household Use

- 30 dB noise level, quieter than a house refrigerator
- Easy installation
- Optional Wi-Fi monitoring



Flexible

- Good grid connect features
- Flexible communication with multiple communication methods



Input (DC)	SG3KTL-D	SG5KTL-D
Max. input power	4000 W	6500 W
Max. input voltage	600 V	
Startup voltage	120 V	
Nominal input voltage	350 V	
MPP voltage range	110 - 560 V	
MPP voltage range for nominal power	150 - 480 V	260 - 480 V
No. of MPPTs	2	
Max. number of PV strings per MPPT	1	
Max. PV input current	20 A (10 A / 10 A)	
Max. current for input connector	24 A (12 A / 12 A)	

Output (AC)	SG3KTL-D	SG5KTL-D
Nominal AC output power	3000 W	5000 W / 4990 W *(Australia)
Max. AC output power (PF=1)	3000 W	5000 W / 4990 W *(Australia)
Max. AC output apparent power	3000VA	5000 W / 4990 W *(Australia)
Max. AC output current	13.6 A	21.7 A (for 230 Vac), 22.7 A (for 220 Vac)
Nominal AC voltage	220 Vac, 230 Vac (Single phase)	
AC voltage range	180 - 276 V	
Nominal grid frequency	50 Hz / 60 Hz	
Grid frequency range	45 - 55 Hz / 55 - 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor	> 0.99 @default value at nominal power, (adj. 0.8 leading - 0.8 lagging)	

Protections & Functions

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. Euro. efficiency	96.90 %	97.10 %
Isolation method	Transformerless	
Ingress protection rating	IP65	
Night power consumption	< 1 W	
Operating ambient temperature range	-25 - 60 °C (>45 °C derating)	
Allowable relative humidity range	0 - 100 %	
Cooling method	Natural cooling	
Max. operating altitude	4000 m (> 2000 m 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, IEC62109-1, IEC62109-2, VDE-AR-N-4105, VDE0126-1-1, G83/2, 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 bracket
Weight	11 kg

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

Efficiency Curve

