

SG2K-S/SG2K5-S/SG3K-S

String Inverter



High Yield

- Max. efficiency 98.2 %, European efficiency 97.7 %
- 90 - 560 V wide MPP voltage range



Easy O&M

- 8.5 kg, easy installation by one person
- Plug and play connector design for convenient installation



Saved Investment

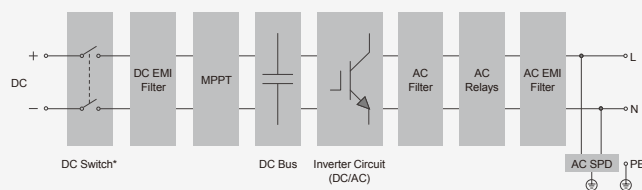
- Max. DC/AC ratio up to 1.3
- Remote monitoring, parameter configuration and firmware update, save O&M investment



Grid Support

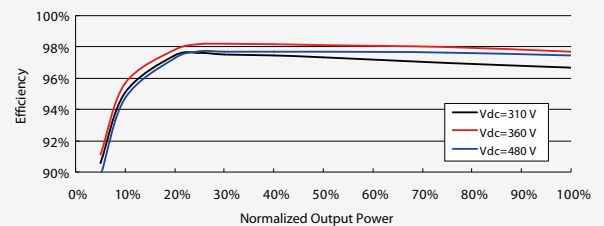
- Compliance with AS/NZS3100, AS4777.2, AS4777.3, VDE-AR-N-4105, VDE0126-1-1, CE, G83/2, C10/11, EN50438
- Active & reactive power control, power ramp rate control

Circuit Diagram



*only for SG2K5-S

Efficiency Curve



Input (DC)	SG2K-S	SG2K5-S	SG3K-S
Max. PV input voltage	600 V		
Min. PV input voltage / Startup input voltage	90 V / 120 V		
Nominal input voltage	360 V		
MPP voltage range	90 – 560 V		
MPP voltage range for nominal power	210 – 480 V	260 – 480 V	310 – 480 V
No. of independent MPP inputs	1		
Max. number of PV strings per MPPT	1		
Max. PV input current	10 A		
Max. current for input connector	12 A		
Max. DC short-circuit current	12 A		
Output (AC)			
Nominal AC power (at 40 °C)	2000 W	2500 W	3000 W
Max. AC output power at PF=1 (at 40 °C)	2000 W	2500 W	3000 W
Max. AC apparent power (at 40 °C)	2000 VA	2500 VA	3000 VA
Max. AC output current	9.1 A	11.3 A	13.7 A
Nominal AC voltage	230 V		
AC voltage range	180 – 276 V		
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz		
THD	< 3 % (at nominal power)		
DC current injection	< 0.5 % I _n		
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging		
Feed-in phases / Connection phases	1 / 1		
Efficiency			
Max. efficiency / Euro. efficiency	98.2 % / 97.2 %	98.2 % / 97.5 %	98.2 % / 97.7 %
Protection			
DC reverse connection protection	Yes		
AC short-circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
DC switch / AC switch	No / No	Yes / No	No / No
DC fuse	No		
PV string current monitoring	Yes		
Overvoltage protection	AC Type III		
General Data			
Dimensions (W*H*D)	300*370*125 mm		
Weight	8.5 kg		
Isolation method	Transformerless		
Degree of protection	IP65		
Night power consumption	< 1 W		
Operating ambient temperature range	-25 to 60 °C (> 40 °C derating)		
Allowable relative humidity range (non-condensing)	0 – 100 %		
Cooling method	Natural cooling		
Max. operating altitude	4000 m (> 2000 m derating)		
Display / Communication	LCD / Wi-Fi (optional)		
DC connection type	MC4 (Max. 6 mm ²)		
AC connection type	Plug and play connector (Max. 6 mm ²)		
Compliance	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		
Grid support	Active & reactive power control, power ramp rate control		
Type designation	SG2K-S-10	SG2K5-S-10	SG3K-S-10

