

# SG2K-S/SG2K5-S/SG3K-S

## Residential String Inverter



### HIGH YIELD

- Industry leading efficiency of 98.2%
- Flexible PV string configurations
- High DC/AC ratio up to 1.3



### SMART MANAGEMENT

- Feature-rich online monitoring via App or Web
- Firmware updates & new monitoring features
- Gain energy flow with Sungrow smart meter



### SAFE AND RELIABLE

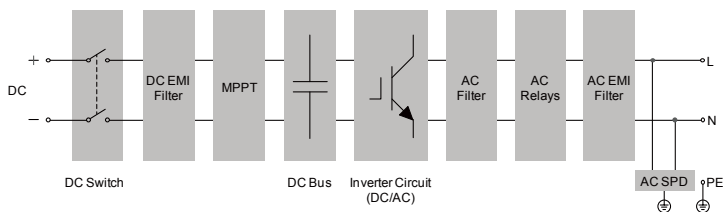
- Built-in surge arresters & RCD
- Cutting-edge technology ensures long life time
- High anti-corrosion rating at C5



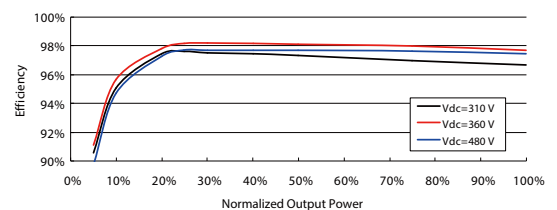
### EASY INSTALLATION

- Push-in connectors for time-saving installation
- Mounting plate with built-in level
- Fast and easy commissioning via App or LCD

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE



Type designation	SG2K-S	SG2K5-S	SG3K-S
<b>Input (DC)</b>			
Max. PV input voltage		600 V	
Min. PV input voltage / Startup voltage		90 / 120 V	
Nominal input voltage		360 V	
MPP voltage range		90 V – 560 V	
MPP voltage range for nominal power	210 V – 480 V	260 V – 480 V	310 V – 480 V
No. of MPPTs		1	
Max. number of PV strings per MPPT		1	
Max. PV input current		10 A	
Max. current for input connector		12 A	
Max. PV short-circuit current		12 A	
<b>Output (AC)</b>			
Nominal AC output power	2000 W	2500 W	3000 W
Max. apparent AC output power	2000 VA	2500 VA	3000 VA
Max. AC output current	9.1 A	11.3 A	13.7 A
Nominal AC voltage		230 Vac	
AC voltage range		180 Vac – 276 Vac	
Nominal grid frequency		50 Hz / 60 Hz	
Grid frequency range		45 Hz – 55 Hz / 55 Hz – 65 Hz	
Total Harmonic Distortion (THD)		< 3 % (of nominal power)	
DC current injection		< 0.5 % (of nominal current)	
Power factor		> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases		1 / 1	
<b>Efficiency</b>			
Max. efficiency / European efficiency	98.2 % / 97.2 %	98.2 % / 97.5 %	98.2 % / 97.7 %
<b>Protection</b>			
PV reverse connection protection		Yes	
AC short circuit protection		Yes	
Leakage current protection		Yes	
Grid monitoring		Yes	
PV string current monitoring		Yes	
DC switch		Yes	
Overvoltage protection		AC Type II	
<b>General Data</b>			
Dimensions (W*H*D)		300*370*125 mm	
Weight		8.5 kg	
Isolation method		Transformerless	
Ingress protection rating		IP65	
Night power consumption		< 3 W	
Operating ambient temperature range		-25 °C to 60 °C (>45 °C derating)	
Allowable relative humidity (non-condensing)		0 – 100 %	
Cooling method		Natural cooling	
Max. operating altitude		4000 m (> 2000 m derating)	
Display		LCD	
Communication		Wifi / Ethernet (optional)	
DC connection type		MC4 (Max. 6 mm <sup>2</sup> )	
AC connection type		Plug and play connector (Max. 6 mm <sup>2</sup> )	
Compliance		IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61000-6-3, VDE-AR-N-4105, CEI 0-21, VDE0126-1-1, UTE C15-712, VFR-2014, EN50438, C10/11, G83/2, G59/3	
Compliance		Active & reactive power control, power ramp rate control	
Type designation	SG2K-S	SG2K5-S	SG3K-S

