SG2K-S/SG2K5-S/SG3K-S

Residential Single Phase Inverter Premium

AU

HIGH YIELD

- Higher yield with Max. efficiency 98.2 %, European efficiency 97.7 %
- 12.5 A MPPT current, and compatible with bifacial modules
- Flexible PV string configurations, DC/AC ratio up to 1.4

SMART MANAGEMENT

- 24H real-time loads monitoring
- Easy local and online monitoring via App or Web

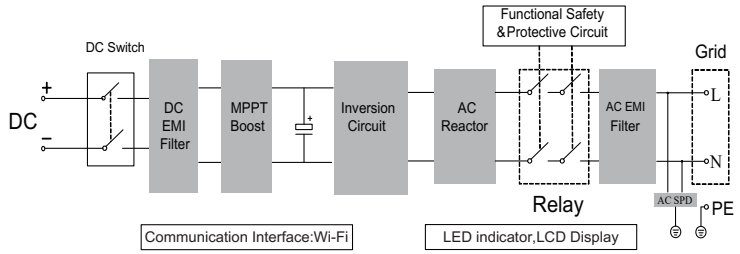
SAFE AND RELIABLE

- Quick Arc Fault Circuit Interrupter
- Built-in Type II DC&AC Surge Protection Device
- Built-in Certified PV Isolator

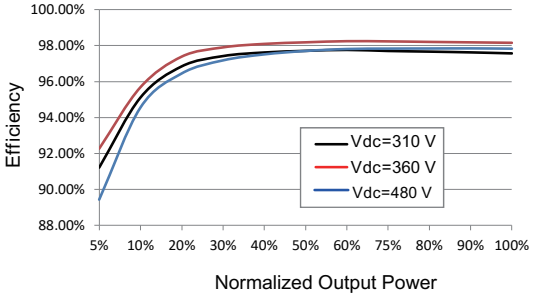
EASY AND USER FRIENDLY

- 8.5 kg compact design, plug and play installation
- Fast commissioning via LCD

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SG3K-S)



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SUNGROW
Clean power for all

Type designation	SG2K-S	SG2K5-S	SG3K-S
Input (DC)			
Recommended max. PV input power	2680 W	3350 W	4000 W
Max. PV input voltage		600 V	
Min. PV input voltage / Startup voltage		90 V / 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		12.5 A	
Max. PV short-circuit current		20 A	
Output Side Data			
AC output power	2000 VA	2500 VA	3000 VA
Rated AC output apparent 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)	
Power factor		> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases		1 / 1	
Efficiency			
Max. efficiency	98.2%	98.2%	98.2%
European efficiency	97.2%	97.5%	97.7%
Protection			
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	
AFCI		Yes	
Overvoltage protection		DC Type II / AC Type II	
General Data			
Dimensions (W*H*D)		300*370*125 mm	
Weight		8.5 kg	
Isolation method		Transformerless	
Ingress protection rating		IP65	
Power loss in night mode		< 3W	
Operating ambient temperature		-25 ℃ to 60 ℃ (>45 ℃ derating)	
Allowable relative humidity		0 – 100 %	
Cooling method		Natural cooling	
Max. operating altitude		4000 m (> 2000 m derating)	
Display / Communication		LCD / WLAN	
PV connection type		MC4 (max. 6 mm²)	
AC connection type		Plug and play connector (max. 6 mm²)	
Certification		IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61000-6-3, AS/NZS 4777.2:2020	
Country of manufacture		China	

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