SG3K-D/SG5K-D

Residential Single Phase Inverter



- Higher yield with Max. efficiency 98.4 %, European efficiency 98.0 %
- 12.5 A MPPT current, and compatible with bifacial modules
- Flexible PV string configurations, DC/AC ratio up to 1.4

SAFE AND DURABLE

- Built-in surge arresters and residual current protection
- High anti-corrosion with aluminum alloy die casting

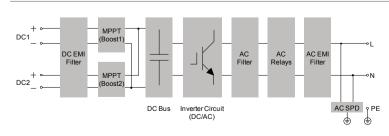
SMART MANAGEMENT

- Easy local and online monitoring via App or Web
- Export power control with smart energy meter

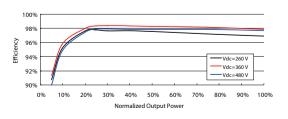
EASY AND USER FRIENDLY

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE







Type designation	SG3K-D	SG5K-D
Input (DC)		
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	160 V – 480 V	240 V - 480 V
No. of MPPTs		2
Max. number of PV strings per MPPT	1	
Max. PV input current	25 A (12.5 A / 12.5 A)	
Max. PV short-circuit current	30 A (15 A / 15 A)	
Output Side Data	,	
AC output power	3000 VA	4999 VA
Max. AC output current	13.7 A	21.7 A
Nominal AC voltage		30 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		1/1
Max. efficiency	9	8.4 %
Max. European efficiency	97.7 %	98.0 %
Protection Protection	51.7 70	98.0 %
PV reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	yes Yes	
PV string current monitoring		
DC switch	Yes No	
AFCI	No No	
24H loads monitoring	No	
Overvoltage protection	AC Type II	
General Data	AC Type II	
	360*390*133 mm	
Dimensions (W*H*D)	360°390°133 mm 11.5 kg	
Weight Isolation method	·	
	Transformerless	
Ingress protection rating Power loss in night mode	IP65	
-	<1W	
Operating ambient temperature	-25 °C to 60 °C (>45 °C 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	
	61000-6-3	AS/N7S 4777 2









