

# SG60KTL

String Inverter for 1000 Vdc System



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### High Yield

- Max. efficiency 98.9 %, European efficiency 98.7 %
- Long-time overload at 1.1 Pn
- Full power operation without derating at 50 °C



### Easy O&M

- Compact design and light weight for easy installation
- Plug-in design of fan and SPD, convenient for on-site maintenance
- Integrated string current monitoring function for fast trouble shooting



### Saved Investment

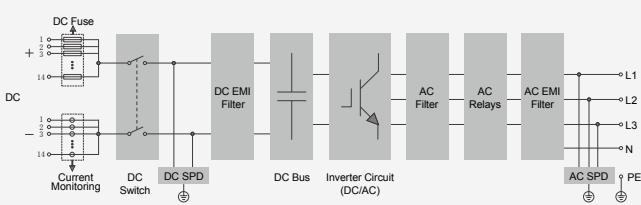
- Max. DC/AC ratio up to 1.4
- Integrated DC combiner box and DC/AC overvoltage protection



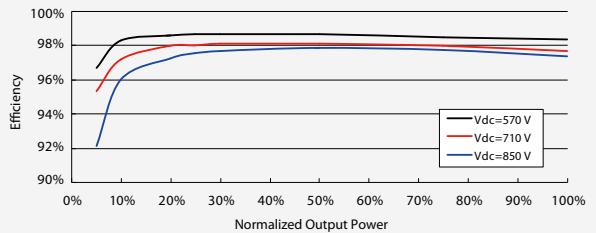
### Grid Support

- Compliance with standards: IEC 62109, IEC 61727, IEC 62116, VDE0126-1-1, G59/3, VDE-AR-N-4105, VDE-AR-N-4120, BDEW
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

### Circuit Diagram



### Efficiency Curve



<b>Input (DC)</b>		<b>SG60KTL</b>
Max. PV input voltage	1000 V	
Min. PV input voltage / Startup input voltage	570 V / 620 V	
Nominal input voltage	710 V	
MPP voltage range	570 – 950 V	
MPP voltage range for nominal power	570 – 850 V	
No. of independent MPP inputs	1	
Max. number of PV strings per MPPT	14	
Max. PV input current	120 A	
Max. current for input connector	12 A	
Max. DC short-circuit current	140 A	
<b>Output (AC)</b>		
AC output power	66000 VA @ 45 °C / 60000 VA @ 50 °C	
Max. AC output current	96 A	
Nominal AC voltage	3 / N / PE or 3 / PE, 230 / 400 V	
AC voltage range	310 – 480 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 % In	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
<b>Efficiency</b>		
Max. efficiency / Euro. efficiency	98.9 % / 98.7 %	
<b>Protection</b>		
DC reverse connection protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
DC switch / AC switch	Yes / No	
DC fuse	Yes (positive, 15A)	
PV string current monitoring	Yes	
Oversupply protection	DC Type II / AC Type III	
<b>General Data</b>		
Dimensions (W*H*D)	634*959*267 mm	
Weight	60 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Night power consumption	< 1 W	
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Smart forced air cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display / Communication	Graphic LCD / RS485	
DC connection type	MC4 (Max. 6mm²)	
AC connection type	Screw clamp terminal (Max. 95 mm²)	
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE0126-1-1, G59/3, VDE-AR-N-4105, VDE-AR-N-4120, BDEW, IEC 61000-3-11/-12, EN 50438, UTE C 15-712-1/07.13, CEA, PEA, MEA	
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control	
Type designation	SG60KTL-182	

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