

SG 60KTL



Efficient and flexible

- String inverter up to a maximum of 66 kW and:
 - maximal power density (63.4 cm x 95.9 cm)
 - lowest power-to-weight ratio (55 kg)
 - maximal efficiency up to 99% (EU-eff = 98.7%)
- Output of up to 66 kVA / 66 kW at a power factor of 1



Intelligent design

- Type II overvoltage protection integrated
- DC switch integrated
- Optional: Screw clamp terminal for connection of external combinerbox



Communication

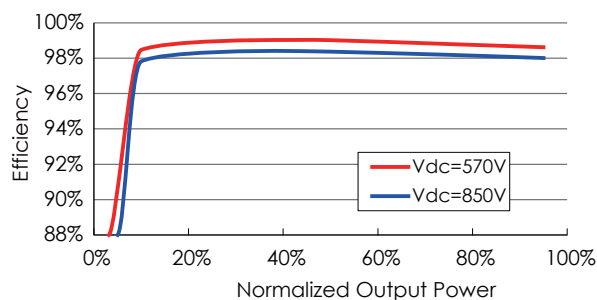
- Includes RS-485 interfaces, compatible with all common monitoring systems
- Simple, central parameter adjustment and firmware update via laptop



Reliable

- Product certification: TÜV, IEC 62109-1, IEC 62109-2, EN 61000-6-2, EN 61000-6-3, DK5940, G59/3, BDEW
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

Efficiency Curve



AC voltage

220/380Vac

230/400Vac

Input Side Data

Max. PV input voltage	1000V	
Startup voltage	620V	
MPP voltage range	550~950V	570~950V
MPP voltage range for nominal power	550~850V	570~850V
No. of MPPTs	1	
Max. number of PV strings per MPPT	1	
Max. PV input current	120A	
Max. current for input connector	120A	
Short circuit current of PV input	140A	

Output Side Data

Nominal AC output power	60000W	
Max. AC output power (PF=1)	63360W	66000W
Max. AC output apparent power	63360VA	66000VA
Max. AC output current	96A	
Nominal AC voltage	3/PE, 220/380Vac	3/PE, 230/400Vac
AC voltage range	310~480Vac	
Nominal grid frequency	50Hz/60Hz	
Grid frequency range	45~55Hz/55~65Hz	
THD	<3% (Nominal power)	
DC current injection	<0.5 %I _n	
Power factor	>0.99@default value at nominal power, (adj. 0.8 overexcited ~0.8 underexcited)	

Protection

Anti-islanding protection	Yes
LVRT	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC overvoltage protection	DC Type II DIN rail surge arrester (40KA)

System Data

Max. efficiency	99.00%	Dimensions (W*H*D)	634*959*267mm
Max. European efficiency	98.70%	Mounting method	Wall bracket
Isolation method	Transformerless	Weight	55kg
Ingress protection rating	IP65		
Night power consumption	<1W		
Operating ambient temperature range	-25~60°C (>50°C derating)		
Allowable relative humidity range	0~100%		
Cooling method	Smart forced air cooling		
Max. operating altitude	4000m (>3000m derating)		
Display	Graphic LCD		
Communication	RS485 (optional ethernet)		
DC connection type	Screw clamp terminal		
AC connection type	Screw clamp terminal		
Certification	VDE0126-1-1, IEC 62109-1, IEC 62109-2, G59/3, BDEW, EN 61000-6-2, EN 61000-6-3, DK 5940		

Mechanical Data

Circuit Diagram

