

# SG 60KTL - Deluxe



## Efficient and flexible

- String inverter up to a maximum of 66 kW and:
  - maximal power density (63.4 cm x 95.9 cm)
  - maximal efficiency up to 98.9% (EU-eff = 98.7%)
- Output of up to 66 kVA / 66 kW at a power factor of 1



## Intelligent design

- Integrated combiner box: 12 x MC4 connector pairs with DC string fuses, Type II overvoltage protection, DC switch
- Integrated DC-String-Current - Monitoring
- DC-String fuses (positive and negative)
- AC Type II SPD and AC-Switch



## Communication

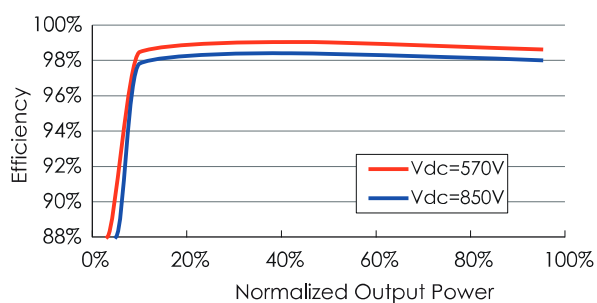
- Includes RS-485 interfaces, compatible with all common monitoring systems
- Simple, central parameter adjustment and firmware update via laptop



## Reliable

- Product certification: TÜV, IEC 62109-1, IEC 62109-2, EN 61000-6-2, EN 61000-6-3, DK5940, G59/3, BDEW, VDE AR-N 4105
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

## Efficiency Curve



## AC voltage

230/400Vac

## Input Side Data

Max. PV input voltage	1000V
Startup voltage	620V
MPP voltage range	570~950V
MPP voltage range for nominal power	570~850V
No. of MPPTs	1
Max. number of PV strings per MPPT	12
Max. PV input current	120A
Max. current for input connector	12A

## Output Side Data

Nominal AC output power	60000W
Max. AC output power (PF=1)	66000W
Max. AC output apparent power	66000VA
Max. AC output current	96A
Nominal AC voltage	3/N/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 %In
Power factor	>0.99@default value at nominal power, (adj. 0.8 overexcited ~0.8 underexcited)

## Protection

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

## System Data

Max. efficiency	98.90%
Max. European efficiency	98.70%
Isolation method	Transformerless
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
DC connection type	MC4
AC connection type	Screw Clamp terminal (Al/Cu; max. 95mm)
Certification	IEC 62109-1, IEC 62109-2, G59/3, BDEW, VDE AR-N 4105, EN 61000-6-2, EN 61000-6-3, DK 5940

## Mechanical Data

Dimensions (W*H*D)	634*959*267mm
Mounting method	Wall bracket
Weight	60kg

## Circuit Diagram

