

# SG 60KTL



## Efficient and flexible

- String inverter up to maximum power of 66kW and:
  - Max. efficiency up to 99% (EU efficiency = 98.7%)
  - Maximal power density (66kVA / 55kg)
- Output power up to 66kVA / 66kW at power factor of 1



## Grid-friendly

- Active power continuously adjustable (0~100%)
- Fulfill a variety of reactive power adjustment requirements with power factor 0.8 overexcited ~ 0.8 underexcited
- Integrated LVRT and HVRT function
- Includes RS-485 interface, compatible with all common monitoring systems



## Intelligent design

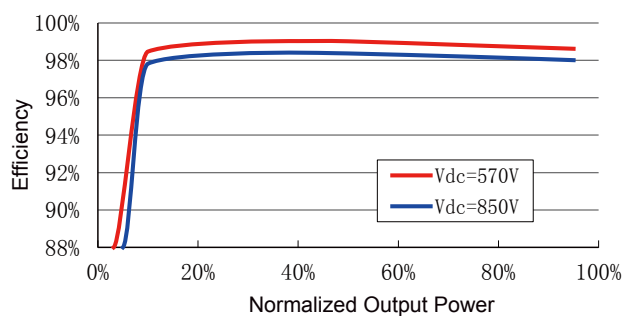
- Integrated combiner box: 12 x MC4 connector pairs with DC string fuses, Type II overvoltage protection and DC switch, more safety and lower the system cost
- Optional: Screw clamp terminal for connection of external combiner box



## Reliable

- Product certification: TÜV, CE, G59/3, BDEW, CGC and GB-T19964
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

## Efficiency Curve



**Grid Type** 230V/400Vac

### Input Side Data

Max. PV input power	67500W
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	120
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	3P+N+PE/3P+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 leading ~ 0.8 lagging)

### Protection

Anti-islanding protection	Yes
LVRT	Yes
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
AC switch	Optional
DC fuse	Yes
PV String detection	Optional
ARC detection	Optional
DC Overvoltage protection	DC Type II DIN rail surge arrester (40KA)
AC Overvoltage protection	Optional AC Type II DIN rail surge arrester (40KA)

### System Data

Max. efficiency	99.00%
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/Screw Clamp terminal
AC connection type	Screw Clamp terminal
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/3, BDEW, GB/T 19964, GB/T 29319

### Mechanical Data

Dimensions (W*H*D)	634*959*267mm
Mounting method	Wall bracket
Weight	55kg

## Circuit Diagram

