

# SG60KTL

String Inverter



## High Power Yield

- Max. efficiency 99%
- Max. DC/AC ratio up to 1.4
- Long-term overload at 1.1Pn



## Intelligent Design

- Integrated string monitoring function
- Integrated DC fuses and DC/AC surge protection function



## Qualified

- TÜV, CE, G59/3, BDEW



### 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	14
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
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC fuse	DC positive fuses
PV string detection monitoring	Yes
DC overvoltage protection	DC Type II SPD (40KA)/AC Type III SPD

### System Data

Max. efficiency	99.0%
Euro. efficiency	98.7%
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	<1W
Operating ambient temperature range	-25~60
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,max.6mm <sup>2</sup> cable
AC connection type	Screw Clamp Terminal, Max. 95mm <sup>2</sup> copper or aluminum cable
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/3, VED AR N 4105, BDEW

### Mechanical Data

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

Note: this inverter only be used in industrial area

### Efficiency Curve

