

SG80KTL NEW

String Inverter



High Power Yield

- Max. efficiency 99%
- Max. DC/AC ratio up to 1.4



Flexible

- Wireless power line communication



Intelligent Design

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



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	18
Max. PV input current	144
Max. current for input connector	12A

Output Side Data

Nominal AC output power	80000W
Max AC output power (PF=1)	80000W
Max. AC output apparent power	80000VA
Max. AC output current	116A
Nominal AC voltage	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	Yes
PV string monitoring	Yes
DC overvoltage protection	DC Type II SPD (40KA)
AC overvoltage protection	AC Type II SPD (40KA)

System Data

Max. efficiency	99.00%
Euro. efficiency	98.70%
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/PLC
DC connection type	MC4
AC connection type	Screw Clamp terminal
Certification	EN62109-1,EN62109-2,G59/3,BDEW

Mechanical Data

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

Note: this inverter only be used in industrial area

Efficiency Curve

