

SG80KTL NEW

String Inverter



Secured Yield

- Max. efficiency 98.7 %
- Max. DC/AC ratio up to 1.4



Intelligent Design

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



Qualified

- TÜV, CE, G59/3, BDEW



Input (DC)

Max. PV input voltage	1000 V
Startup voltage	620 V
MPP voltage range	570 - 950 V
MPP voltage range for nominal power	570 - 850 V
No. of MPPTs	1
Max. number of PV strings per MPPT	18
Max. PV input current	144 A
Max. current for input connector	12 A

Output (AC)

Nominal AC output power	80000 W
Max AC output power (PF=1)	80000 W
Max. AC output apparent power	80000 VA
Max. AC output current	116 A
Nominal AC voltage	3 / PE, 230 / 400 V
AC voltage range	310 - 480 V
Nominal grid frequency	50 Hz / 60 Hz
Grid frequency range	45 - 55 Hz / 55 - 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor	> 0.99@default value at nominal power, (adj. 0.8 leading - 0.8 lagging)

Protections & Functions

Anti-islanding protection	Yes
LVRT	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC fuse	Yes
PV string current monitoring	Yes
DC overvoltage protection	DC Type II SPD (40 kA)
AC overvoltage protection	AC Type II SPD (40 kA)

System Data

Max. efficiency	98.70 %
Euro. efficiency	98.50 %
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	<1W
Operating ambient temperature range	-25 to 60 °C
Allowable relative humidity range	0 - 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	Graphic LCD
Communication	RS485 / PLC (optional)
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*267 mm
Mounting method	Wall bracket
Weight	60 kg

Note: this inverter only be used in industrial area

Efficiency Curve

