


**NEW**


# SG 80KTL

 **Flexible**

- Integrated DC/AC surge protection function, lower the system cost

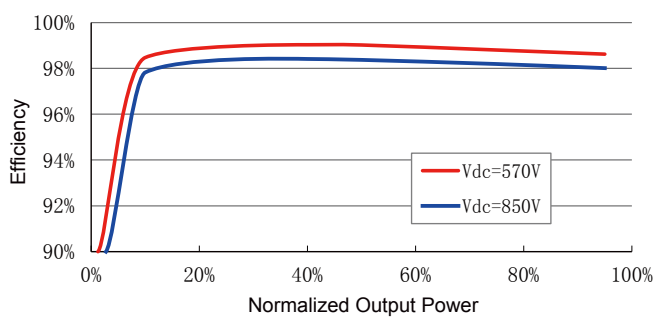
 **Efficient**

- Max. Efficiency at 99%

 **Grid-friendly**

- Active power continuously adjustable (0-100%)
- Power factor 0.8 underexcited – 0.8 overexcited
- Integrated LVRT and HVRT function

## Efficiency Curve



**Grid Type** 230V/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	18
Max. PV input current	144A
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. 0.8overexcited ~0.8underexcited)

### Protection

Anti-islanding protection	Yes
LVRT	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC Overvoltage protection	DC Type II DIN rail surge arrester (40KA)
AC Overvoltage protection	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
Allowable relative humidity range	0~100%
Cooling method	Smart forced air cooling
Max. operating altitude	4000m (>3000m derating)
Display	Graphic LCD
Communication	RS485(Optional Ethernet)
DC connection type	MC4
AC connection type	Screw Clamp terminal
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/3, VDE AR N 4105, BDEW

### Mechanical Data

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

### Circuit Diagram

