



## SG 20KTL

### Grid-friendly

- LVRT
- Active power continuously adjustable (0~100%)
- Reactive power control with power factor from 0.9 lagging to 0.9 leading

### Efficient

- Max. Efficiency at 98%
- Film capacitor, increase system reliability
- Wide DC input voltage range, max. 1000V

### Flexible

- Flexible setting single or twin MPPT
- DC switch, safe and convenient for maintenance

### Qualified

- TÜV, CE,CEIO-21, CGC, BDEW, VDE AR N 4105

#### Input Side Data

Max. PV input power	21000W (10500W/10500W)
Max. PV input voltage	1000V
Startup voltage	300V
Nominal input voltage	650V
MPP voltage range	280~950V
MPP voltage range for nominal power	480~800V
No. of MPPTs	2
Max. number of PV strings per MPPT	3/3
Max. PV input current	42A (21A/21A)
Max. current for input connector	10A
Short-circuit current of PV input	50A(25A/25A)

#### Output Side Data

Nominal AC output power	20000W
Max. AC output apparent power	22200VA
Max. AC output current	33A
Nominal AC voltage	3/N/PE, 230/400Vac
AC voltage range	310~480Vac (May vary as per corresponding country's grid standard)
Nominal grid frequency	50Hz
Grid frequency range	45~55Hz (May vary as per corresponding country's grid standard)
THD	<3% (Nominal power)
DC current injection	<0.5%In
Power factor	>0.99@default value at nominal power, (adj. 0.9 overexcited ~0.9 underexcited)

#### Protection

Anti-islanding protection	Yes
LVRT	Yes
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Integrated
DC fuse	No
Overvoltage protection	Varistors

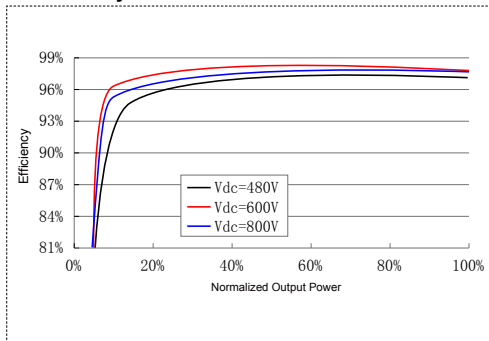
#### System Data

Max. efficiency	98.0%
Max. European efficiency	97.3%
Isolation method	Transformerless
Ingress protection rating	IP65 (Fan IP54)
Night power consumption	<1W
Operating ambient temperature range	-25~60°C (> 45°C derating)
Allowable relative humidity range	0~95% non-condensation
Cooling method	Smart forced air cooling
Max. operating altitude	4000m (> 2000m derating)
Display	Graphic LCD
Communication	RS485 (RJ45 connector)
DC connection type	MC4
AC connection type	Plug and play connector (Wieland RST5015)
Certification	EN62109-1, EN62109-2, EN61000-6-2, EN61000-6-3, VDE0126-1-1, CEI-021, AS/NZS3100, AS4777.2, AS4777.3, VDE-AR-N-4105, BDEW, CGC compliance

#### Mechanical Data

Dimensions (W × H × D)	648 × 686 × 246mm
Mounting method	Wall bracket
Weight	55kg

### Efficiency Curve



### Circuit Diagram:

