

# SG20KTL

# SUNGROW



### Efficient and flexible

- 2 MPP trackers, single-tracker operation possible
- Photon test results "very good", with a maximum efficiency of 98% (Photon Profi 2-2012)
- Full 20 kW effective power at a power factor of 0.9 owing to apparent power reserves of up to 22.2 kVA



### Communication

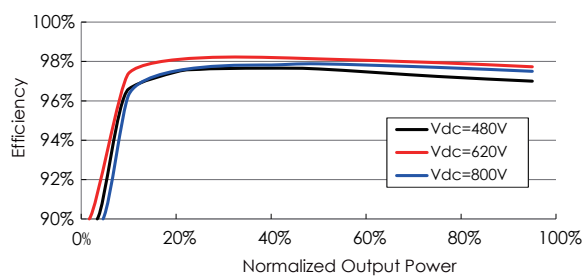
- Includes RS-485 interface, compatible with all common monitoring systems



### Reliable

- Tested for reliability by VDE-ASIG
- Product certification: TÜV, EN 62109-1, EN 62109-2, EN 61000-6-2, EN 61000-6-3, VDE 0126-1-1, CE, DK5940, G59/2, BDEW, VDE-AR-N 4015
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

## Efficiency Curve



A Member of the VDE Group

**Input Side Data**

**SG 20KTL**

Max. PV input voltage	1000V
Startup voltage	300V
Nominal input voltage	620V
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
Max. PV input current	42A(21A/21A)
Max. current for input connector	12A

**Output Side Data**

Nominal AC output power	20000W
Max. AC output power (PF=1)	22200W
Max. AC output apparent power	22200VA
Max. AC output current	33A
Nominal AC voltage	3/N/PE, 230/400Vac
AC voltage range	310~480Vac
Nominal grid frequency	50Hz/60Hz
Grid frequency range	47~53Hz/57~63Hz
THD	<3% (nominal power)
DC current injection	<0.5 %In
Power factor	>0.99@default value at nominal power, adj. 0.8 overexcited~0.8 underexcited

**Protection**

Anti-islanding protection	Yes
LVRT	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC fuse	No
DC overvoltage protection	Varistors

**System Data**

Max. efficiency	98.00%
Max. European efficiency	97.30%
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	<1W
Operating ambient temperature range	-25~60°C (>45°C derating)
Allowable relative humidity range	0~100%
Cooling method	Smart forced air cooling
Max. operating altitude	4000m (>3000m derating)
Display	Graphic LCD
Communication	RS485 (RJ45 connector)
DC connection type	MC4
AC connection type	Plug and play connector
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

**Mechanical Data**

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

**Circuit Diagram**

