



## SG 5KTL-M

### Flexible

- Twin-MPPT, wide MPP voltage range
- Multi-communication methods, RS485 and Wifi (opt.)
- DC switch, safe and convenient for maintenance

### Efficient

- Max. Efficiency at 97.6%
- Wide DC input voltage range, max. 550V

### Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor from 0.8 lagging to 0.8 leading

### Qualified

- TÜV, CE, CE, AS4777, VDE AR N 4105 certification

#### Input Side Data

Max. PV input power	5400W (2750W/3500W)
Max. PV input voltage	550V
Startup voltage	150V
Nominal input voltage	370V
MPP voltage range	125~550V
MPP voltage range for nominal power	200~500V
No. of MPPTs	2
Max. number of PV strings per MPPT	1/2
Max. PV input current	26A (10A/ 16A)
Max. current for input connector	10A
Short-circuit current of PV input	32A (12A/20A)

#### Output Side Data

Nominal AC output power	5000W
Max. AC output apparent power	5100VA
Max. AC output current	22A
Nominal AC voltage	230Vac (Single phase)
AC voltage range	180~276Vac (May vary as per corresponding country's grid standard)
Nominal grid frequency	50/60Hz
Grid frequency range	45~55Hz/ 55~65Hz (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. 0.8 overexcited~0.8 underexcited)

#### Protection

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

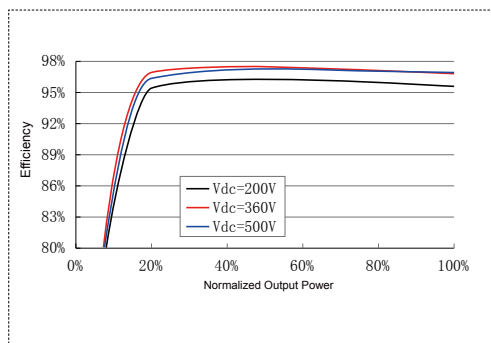
#### System Data

Max. efficiency	97.6%
Max. European efficiency	97.0%
Isolation method	Transformerless
Ingress protection rating	IP65 (Fan IP55)
Night power consumption	<1W
Operating ambient temperature range	-25~60°C (> 45°C derating)
Allowable relative humidity range	0~95% non-condensation
Cooling method	Forced air cooling
Max. operating altitude	4000m (> 2000m derating)
Display	Graphic LCD
Communication	RS485 (RJ45 connector), WiFi (Optional)
DC connection type	SUNCLIX
AC connection type	Plug and play connector (Wieland RST25I3S)
Certification	IEC61000-6-2, IEC61000-6-3, AS/NZS3100, AS4777.2 AS4777.3, VDE-AR-N-4105

#### Mechanical Data

Dimensions (W x H x D)	420 x 555 x 179 mm
Mounting method	Wall bracket
Weight	24kg

### Efficiency Curve



### Circuit Diagram:

