



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

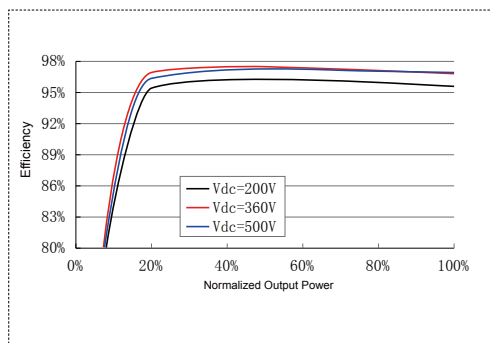
System Data

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:

