

# SG 3 / 4 / 5KTL-M



## Grid-friendly

- Active power continuously adjustable (0 ~ 100%)
- Reactive power control with power factor adjustment from 0.8 overexcited to 0.8 underexcited



## Efficient

- Max. efficiency at 97.4%/97.6%
- Wide DC input voltage range, max. 550V



## Flexible

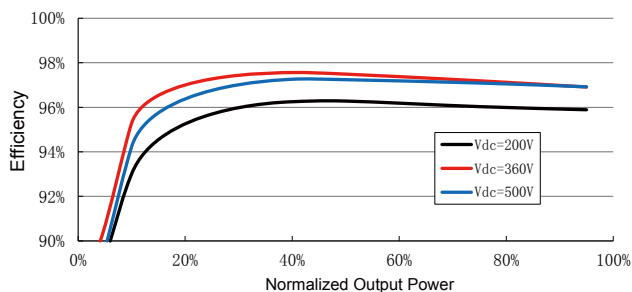
- Dural-MPPT, wide MPP voltage range
- Multi-communication methods, RS485 and WiFi (opt.)
- DC switch, safe and convenient for maintenance



## Qualified

- TÜV, CE, AS4777, AS/NZS 3100, VDE AR N 4105 certified

## Efficiency Curve



## Input Side Data

	SG 3KTL-M	SG 4KTL-M	SG 5KTL-M
Max. PV input power	3200W (3200W/3200W)	4300W (3000W/3500W)	5400W (3000W/3500W)
Max. PV input voltage	550V		
Startup voltage	150V		
Nominal input voltage	370V		
MPP voltage range	125~550V		
MPP voltage range for nominal power	160~500V	170~500V	200~500V
No. of MPPTs	2		
Max. number of PV strings per MPPT	1/1	1/2	1/2
Max. PV input current	20A (10A/10A)	26A (10A/16A)	26A (10A/16A)
Max. current for input connector	10A		

## Output Side Data

Nominal AC output power	3000W	4000W	4600W
Max AC output power (PF=1)	3150W	4200W	5100W
Max. AC output apparent power	3150VA	4200VA	5100VA
Max. AC output current	15A	20A	22A
Nominal AC voltage	230Vac (single phase)		
AC voltage range	180~276Vac (may vary as per corresponding country's grid standard)		
Nominal grid frequency	50Hz/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
LVRT	No
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Optional
DC fuse	No
Overvoltage protection	Varistors

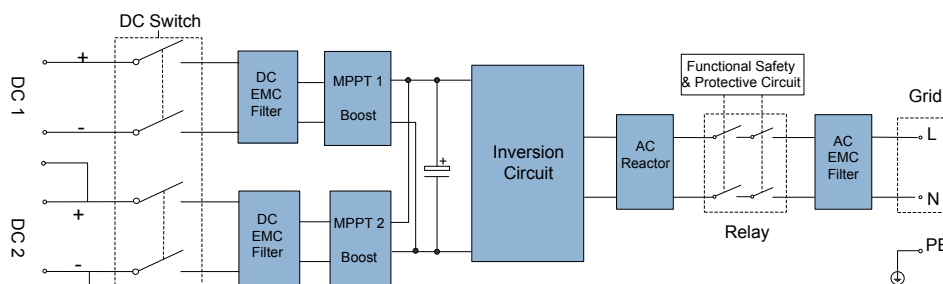
## System Data

Max. efficiency	97.40%	97.60%	97.60%
Max. European efficiency	96.50%	97.00%	97.00%
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% no condensing		
Cooling method	Natural 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	VDE0126-1-1, EN62109-1, EN62109-2, AS/NZS 3100, AS4777.2, AS4777.3, VDE-AR-N-4105, IEC61000-6-2, IEC61000-6-3		

## Mechanical Data

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

## Circuit Diagram



Communication Interface: RS485 (Standard), WiFi (Opt.)

LCD Display Panel