

# SG50KTL-M/SG60KTL-M

String Inverter



## High Power Yield

- Max. efficiency 98.9%
- Max. DC/AC ratio up to 1.3
- Long-term overload at 1.1Pn
- Up to 4 MPP Trackers



## Intelligent Design

- Integrated DC fuses and DC/AC surge protection
- String monitoring function (optional)



## Qualified

- TÜV, CE, G59/3, BDEW

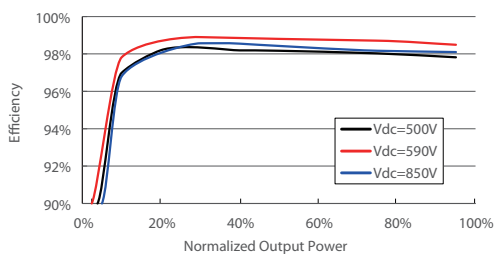


Input Data	SG50KTL-M	SG60KTL-M	
Max. PV input voltage	1000V		
Startup voltage	300V		
Nominal input voltage	590V	710V	
MPP voltage range	300~950V		
MPP voltage range for nominal power	500~850V	550~850V	
No. of MPPTs	4		
Max. number of PV strings per MPPT	3		
Max. PV input current	104A (26A/26A/26A/26A)	112A (28A/28A/28A/28A)	
Max. current for input connector	12A		
Output Data			
Nominal AC output power	50000W	60000W	
Max AC output power (PF=1)	55000W	66000W	
Max. AC output apparent power	55000VA	66000VA	
Max. AC output current	80A		
Nominal AC voltage	3P+N+PE, 230/400Vac	3/PE, 480Vac	
AC voltage range	310~480Vac	422~528Vac	
Nominal grid frequency	50Hz/60Hz		
Grid frequency range	45~55Hz /55~ 65Hz		
THD	<3% (Nominal power)		
DC current injection	<0.5%In		
Power factor	>0.99@default value at nominal power, (adj. 0.8 leading ~0.8 lagging)		
Protection			
Anti-islanding protection	Yes		
LVRT	Yes		
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
DC switch	Yes		
DC fuse	Yes		
Overvoltage protection	DC Type II SPD (40KA)/AC Type II SPD		
System Data			
Max. efficiency	98.90%		
Euro. efficiency	98.50%	98.60%	
Isolation method	Transformerless		
Ingress protection rating	IP65		
Night power consumption	<1W		
Operating ambient temperature range	-25~60 (>50 derating)		
Allowable relative humidity range	0~100%		
Cooling method	Smart forced air cooling		
Max. operating altitude	4000m (>3000m derating)		
Display	Graphic LCD		
Communication	RS485		
DC connection type	MC4		
AC connection type	Screw Clamp terminal		
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/3, BDEW		
		Mechanical Data	
		Dimensions (W*H*D)	665*906*256 mm
		Mounting method	Wall bracket
		Weight	70kg

Note: this inverter only be used in industrial area

### Efficiency Curve

SG50KTL-M



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