

# SG50KTL-M/SG60KTL-M

String Inverter



### Secured 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 current monitoring function (optional)



### Reliable

- TÜV, CE, G59/3, BDEW



Input (DC)	SG50KTL-M	SG60KTL-M
Max. input voltage	1000 V	
Startup voltage	300 V	
Nominal input voltage	590 V	710 V
MPP voltage range	300 - 950 V	
MPP voltage range for nominal power	500 - 850V	550 - 850 V
No. of MPPTs	4	
Max. number of PV strings per MPPT	3	
Max. PV input current	112 A (28 A / 28 A / 28 A / 28 A)	
Max. current for input connector	12 A	

Output (AC)	SG50KTL-M	SG60KTL-M
Nominal AC output power	50000 W	60000 W
Max. AC output power (PF=1)	55000 W	66000 W
Max. AC output apparent power	55000 VA	66000 VA
Max. AC output current	80A	
Nominal AC voltage	3 / N / PE or 3 / PE, 230 / 400 V	3 / PE, 227 / 480 V
AC voltage range	310 - 480 V	422 - 528 V
Nominal grid frequency	50 Hz / 60 Hz	
Grid frequency range	45 - 55 Hz / 55 - 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor	> 0.99 @default value at nominal power, (adj. 0.8 leading - 0.8 lagging)	

### Protections & Functions

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 (40 kA)/AC Type II SPD

### System Data

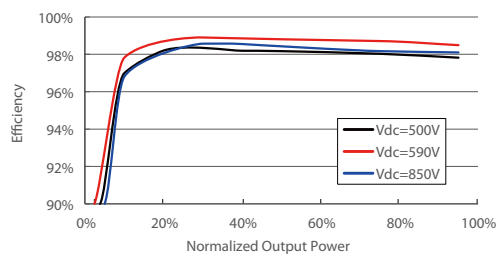
Max. efficiency	98.90 %		
Euro. efficiency	98.50 %	98.60 %	
Isolation method	Transformerless		
Ingress protection rating	IP65		
Night power consumption	<1W		
Operating ambient temperature range	-25 to 60 °C (>50 °C derating)		
Allowable relative humidity range	0 - 100 %		
Cooling method	Smart forced air cooling		
Max. operating altitude	4000 m (> 3000 m derating)		
Display	Graphic LCD		
Communication	RS485		
DC connection type	MC4		
AC connection type	Screw clamp terminal	Dimensions (W*H*D)	
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/3, BDEW	Mounting method	665*906*256 mm
		Weight	70 kg

### Mechanical Data

Note: this inverter may only be used for industrial applications

### Efficiency Curve

SG50KTL-M



SG60KTL-M

