

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	3P + N + PE, 230 / 400 V	3 / PE, 227 / 480V
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)	

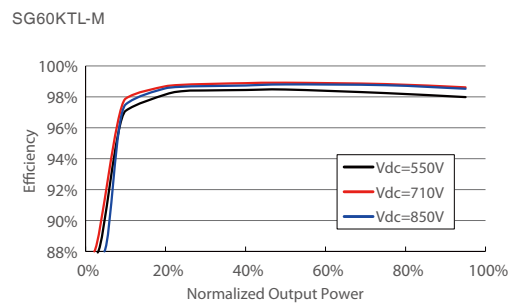
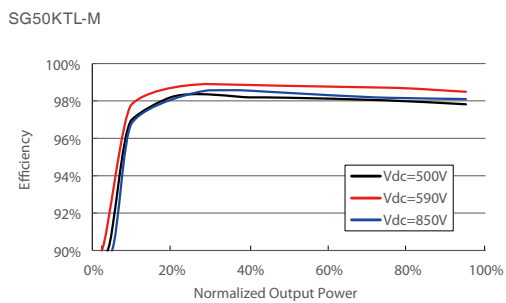
Protections & Functions	SG50KTL-M	SG60KTL-M
Anti-islanding protection	Yes	
LVRT	Yes	
DC reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
DC switch	Yes	
DC fuse	Yes	
Overvoltage protection	DC Type II SPD (40 kA)/AC Type II SPD	

System Data	SG50KTL-M	SG60KTL-M
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) 665*906*256 mm
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/3, BDEW	Mounting method Wall bracket
		Weight 70 kg

Mechanical Data

Note: this inverter may only be used for industrial applications

Efficiency Curve



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