

# SG3KTL-EC/SG5KTL-EC

String Inverter



## Efficient and Flexible

- Flexible design due to dual MPP tracking that is equipped to obtain full nominal power, 3-phase supply
- High energy yield due to maximum efficiency up to 98.1%



## Intelligent Design

- Low noise level and internal consumption due to natural cooling
- Integrated theft protection



## Abundant Functions

- Access to Home WiFi system and enjoy cloud services via smart phones
- Integrated power management function, easy to receive the adjustable command from grid
- Extensive communication: RS-485, Ethernet, WLAN / WiFi, 4 digital inputs for ripple control receivers



## Reliable

- Product certification: TÜV, VDE 0126-1-1, EN 62109-1/-2, CE, G83/1, VDE-AR-N 4105
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000



**Input Side Data**

	SG3KTL-EC	SG5KTL-EC
Max. PV input voltage	1000V	
Startup voltage	200V	250V
Nominal input voltage	610V	
MPP voltage range	140~900V	200~900V
MPP voltage range for nominal power	160~800V	280~800V
No. of MPPTs	2	
Max. number of PV strings per MPPT	1/1	
Max. PV input current	19.8A (9.9A/9.9A)	
Max. current for input connector	12A	
Short-circuit current of PV input	24.8A(12.4A/12.4A)	

**Output Side Data**

	SG3KTL-EC	SG5KTL-EC
Nominal AC output power	3000W	5000W
Max. AC output power (PF=1)	3000W	5000W
Max. AC output apparent power	3000VA	5000VA
Max. AC output current	4.4A	7.3A
Nominal AC voltage	3/N/PE,230/400Vac	
AC voltage range	310~480Vac	
Nominal grid frequency	50Hz	
Grid frequency range	45~55Hz	
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 agging)	

**Protection**

Anti-islanding protection	Yes
LVRT	No
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Integrated
DC fuse	No
Overvoltage protection	DC Type III DIN rail surge arrester (40KA)/AC Type III

**System Data**

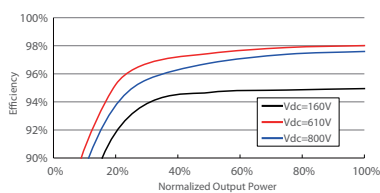
Max. efficiency	98.0%	98.1%
Max. European efficiency	96.2%	97.2%
Isolation method	Transformerless	
Ingress protection rating	IP65	
Night power consumption	<1W	
Operating ambient temperature range	-25~60 (>45 derating)	
Allowable relative humidity range	0~100%	
Cooling method	Natural cooling	
Noise	≤29dB	
Max. operating altitude	2000m	
Display	Graphic LCD	
Communication	Ethernet, RS485 (RJ45 connector), 4xDigital Inputs, WiFi	
DC connection type	MC4	
AC connection type	Plug and play connector	
Certification	VDE0126-1-1, EN62109-1, EN62109-2,G83/1, VDE-AR-N-4105	

**Mechanical Data**

Dimensions (W*H*D)	403*518*190mm
Mounting method	Wall bracket
Weight	22kg

**Efficiency Curve**

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SG 5KTL-EC

