

SG 3 / 4 / 5/6KTL-EC



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%



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



Intelligent design

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

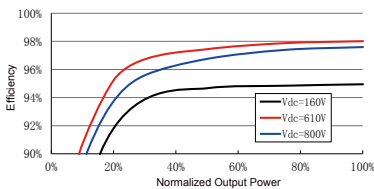


Reliable

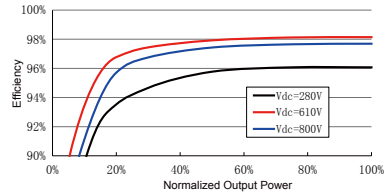
- Product certification: TÜV, VDE 0126-1-1, EN 62109-1/-2, CE, G83/1, VDE-AR-N 4105
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

Efficiency Curve

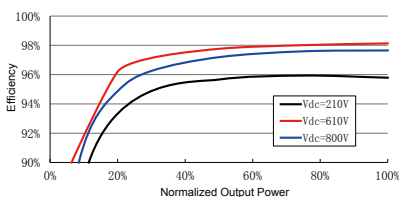
SG 3KTL-EC



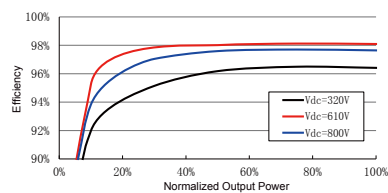
SG 5KTL-EC



SG 4KTL-EC



SG 6KTL-EC



Input Side Data	SG 3KTL-EC	SG 4KTL-EC	SG 5KTL-EC	SG 6KTL-EC
Max. PV input power	3191W	4255W	5265W	6312W
Max. PV input voltage	1000V			
Startup voltage	200V	200V	250V	250V
Nominal input voltage	610V			
MPP voltage range	140~900V	140~900V	200~900V	200~900V
MPP voltage range for nominal power	160~800V	210~800V	280~800V	320~800V
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

Nominal AC output power	3000W	4000W	5000W	6000W
Max. AC output power (PF=1)	3000W	4000W	5000W	6000W
Max. AC output apparent power	3000VA	4000VA	5000VA	6000VA
Max. AC output current	4.4A	5.8A	7.3A	8.7A
Nominal AC voltage	3/N/PE,230/400Vac			
AC voltage range	310~480Vac (May vary as per corresponding country's grid standard)			
Nominal grid frequency	50Hz			
Grid frequency range	45~55Hz (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. 0.8overexcited ~0.8underexcited)			

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	III

System Data

Max. efficiency	98.0%	98.1%	98.1%	98.1%
Max. European efficiency	96.2%	96.8%	97.2%	97.3%
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	0~95% non-condensing			
Cooling method	Natural cooling			
Noise	≤29dB			
Max. operating altitude	2000m			
Display	Graphic LCD			
Communication	Ethernet, RS485 (RJ45 connector), 4 × Digital 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

Circuit Diagram

