

SG 10 KTL-EC



High power yield

- Max. efficiency 98%
- 2MPPT, wide MPPT operating range from 200V to 900V



High Reliability

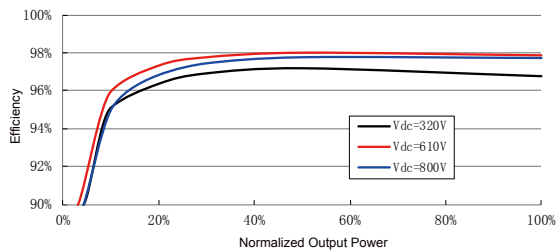
- IP65 environmental protection rating
- Natural cooling



Flexible and friendly

- Integrated digital outputs for intelligent household consumption management
- 2 FE and 2 RS485 communication interface

Efficiency Curve



Input Side Data

Max. PV input power	10550W
Max. PV input voltage	1000V
Startup voltage	250V
Nominal input voltage	610V
MPP voltage range	200~900V
MPP voltage range for nominal power	320~800V
No. of MPPTs	2
Max. number of PV strings per MPPT	3/1
Max. PV input current	33A (22A/11A)
Max. current for input connector	12A
Short-circuit current of PV input	42A (28A/14A)

Output Side Data

Nominal AC output power	10000W
Max. AC output power (PF=1)	10000W
Max. AC output apparent power	10526VA
Max. AC output current	15.3A
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% I _n
Power factor	>0.99@default valueatnominalpower, (adj. 0.8 leading ~ 0.8 lagging)

Protection

Anti-islanding protection	Yes
LVRT	No
DC reverseconnectionprotection	No
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Integrated
DC fuse	No
Overvoltage protection	III

System Data

Max. efficiency	98.0%
Max. European efficiency	97.6%
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	0~100%
Cooling method	Natural cooling
Noise	≤29dB
Max. operating altitude	2000m
Display	Graphic LCD
Communication	2× Ethernet, 2× RS485 (RJ45 connector), 4× Digital Inputs, 2× Digital outputs
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, CEI 0-21

Mechanical Data

Dimensions (W*H*D)	535*710*220mm
Mounting method	Wall bracket
Weight	36kg

Circuit Diagram

