

SG5KTL-D

SUNGROW

Residential String Inverter



HIGH YIELD

- Higher yield with Max. efficiency 97.5 %, European efficiency 97.1 %



EASY AND USER FRIENDLY

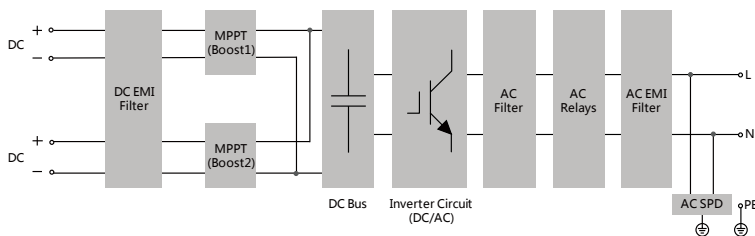
- 11 kg compact design, plug and play installation
- Fast commissioning via LCD



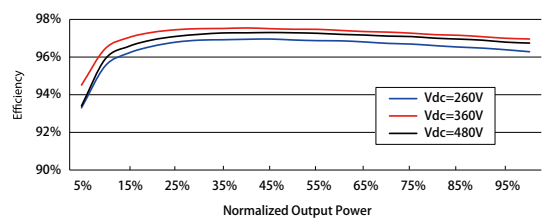
SAFE AND DURABLE

- Built-in surge arresters and residual current protection
- High anti-corrosion with aluminum alloy die casting

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG5KTL-D
Input (DC)	
Max. PV input voltage	600 V
Min. PV input voltage / Startup voltage	110 V / 120 V
Nominal input voltage	360 V
MPP voltage range	110 V – 560 V
MPP voltage range for nominal power	260 V – 480 V
No. of MPPTs	2
Max. number of PV strings per MPPT	1
Max. PV input current	20 A (10 A / 10 A)
Max. current for input connector	12 A
Max. PV short-circuit current	13 A
Output (AC)	
Max. AC output power	5000 VA / 4990 VA* (Australia)
Max. AC output current	21.7 A
Nominal AC voltage	230 Vac
AC voltage range	180 – 276Vac
Nominal grid frequency	50 Hz / 60 Hz
Grid frequency range	45 – 55 Hz / 55 – 65 Hz
THD	< 3 % (of nominal power)
DC current injection	<0.5 % (of nominal current)
Power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	1 / 1
Efficiency	
Max. efficiency / European efficiency	97.5 % / 97.1 %
Protection	
AC short circuit protection	Yes
Leakage current protection	Yes
DC reverse connection protection	Yes
Grid monitoring	Yes
PV string current monitoring	Yes
DC switch	No
Overvoltage protection	AC Type II
System Data	
Dimensions (W*H*D)	300*390*133 mm
Weight	11 kg
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	< 1 W
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)
Allowable relative humidity range	0 – 100 %
Cooling method	Natural cooling
Max. operating altitude	4000m (> 2000 m derating)
Display	LED, LCD (Optional)
Communication	RS485, Wi-Fi (Optional)
DC connection type	MC4 (Max. 6mm ²)
AC connection type	Plug and play connector (Max. 6mm ²)
Certification	IEC61000-6-2, IEC61000-6-3, AS/NZS3100, AS4777.2, AS4777.3, IEC62109-1, IEC62109-2

