

# SG5KTL-D

SUNGROW

## Residential String Inverter



### HIGH YIELD

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



### EASY AND USER FRIENDLY

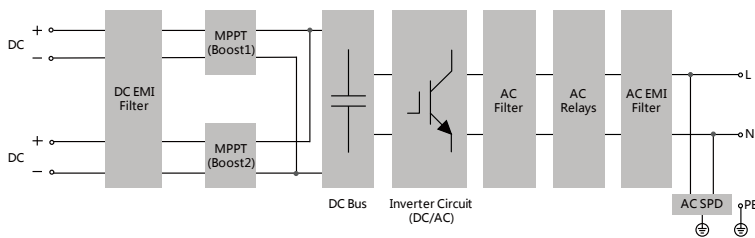
- 11 kg compact design, plug and play installation
- Fast commissioning via LCD



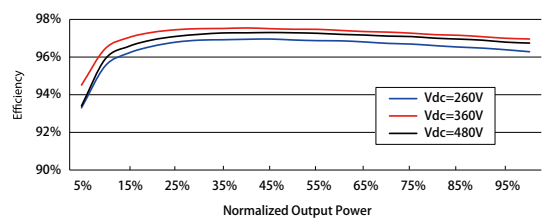
### SAFE AND DURABLE

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

### CIRCUIT DIAGRAM



### EFFICIENCY CURVE



Type designation	SG5KTL-D
<b>Input (DC)</b>	
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
<b>Output (AC)</b>	
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
<b>Efficiency</b>	
Max. efficiency / European efficiency	97.5 % / 97.1 %
<b>Protection</b>	
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
<b>System Data</b>	
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 <sup>2</sup> )
AC connection type	Plug and play connector (Max. 6mm <sup>2</sup> )
Certification	IEC61000-6-2, IEC61000-6-3, AS/NZS3100, AS4777.2, AS4777.3, IEC62109-1, IEC62109-2

