

SG3KTL-S

Residential String Inverter

SUNGROW

Clean power for all



HIGH YIELD

- Higher yield with Max. efficiency 97.5 %, European efficiency 97.0 %



EASY AND USER FRIENDLY

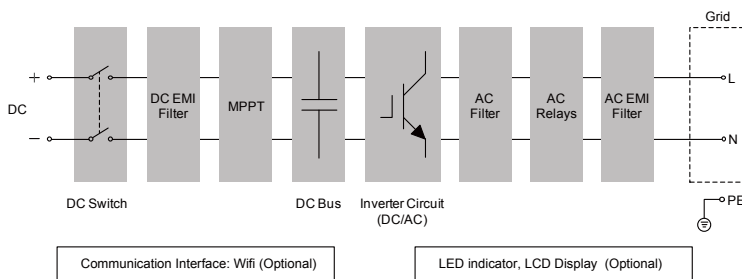
- 9 kg compact design, plug and play installation
- Fast commissioning via LCD



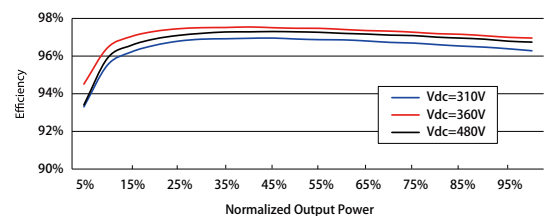
SAFE AND DURABLE

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



| Type designation | SG3KTL-S |
|---|--|
| 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 | 310 V – 480 V |
| No. of MPPTs | 1 |
| Max. number of PV strings per MPPT | 1 |
| Max. PV input current | 10A |
| Max. current for input connector | 12A |
| Max. PV short-circuit current | 13A |
| Output Side Data | |
| Max. AC output power | 3000 VA |
| Max. AC output current | 13.6 A |
| Nominal AC voltage | 230 Vac |
| AC voltage range | 180 – 276 Vac |
| 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 % / 97.0 % |
| Protection | |
| Anti-islanding protection | Yes |
| DC reverse connection protection | Yes |
| AC short circuit protection | Yes |
| Leakage current protection | Yes |
| DC switch | No |
| Overvoltage protection | AC Type II |
| System Data | |
| Dimensions (W*H*D) | 300*370*125 mm |
| Weight | 9 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. 6 mm ²) |
| AC connection type | Plug and play connector (Max. 6 mm ²) |
| Certification | IEC61000-6-2, IEC61000-6-3, AS/NZS3100, AS4777.2, AS4777.3, IEC62109-1, IEC62109-2 |

