



SG 30KTL

Flexible

- Easy to handle without lift machinery assistance, lower the cost of installation and maintenance.
- Integrated DC fuse and DC type 2 SPD lightning protection
- DC switch, safe and convenient for maintenance

Efficient

- Max. Efficiency at 98.3%
- Wide DC input voltage range, max. 1000V

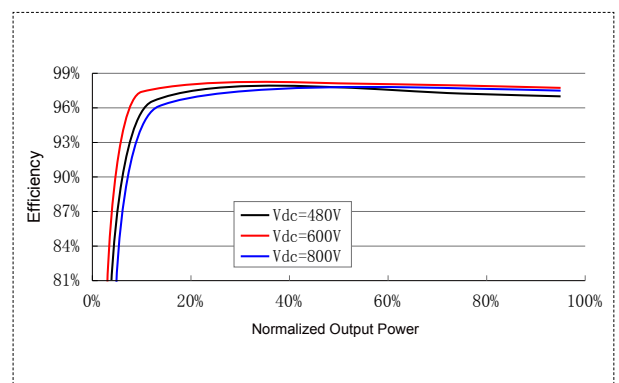
Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor 0.9 overexcited ~0.9 underexcited

Qualified

- TÜV, CE, DK5940, G59/2, AS4777, BDEW, VDE AR N 4105, CGC certification, compliance with Italian medium voltage grid requirement

Efficiency Curve



Technical Specifications:

| SG 30KTL | |
|-------------------------------------|---|
| Input Side Data | |
| Max. PV input power | 32000W |
| Max. PV input voltage | 1000V |
| Startup voltage | 300V |
| Nominal input voltage | 650V |
| MPP voltage range | 280~950V |
| MPP voltage range for nominal power | 480~800V |
| No. of MPPTs | 1 |
| Max. number of PV strings per MPPT | 10 |
| Max. PV input current | 66A |
| Max. current for input connector | 10A |
| Short-circuit current of PV input | 80A |
| Output Side Data | |
| Nominal AC output power | 30000W |
| Max. AC output apparent power | 33120VA |
| Max. AC output current | 48A |
| 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. 0.9 overexited ~0.9 underexited) |
| Protection | |
| Anti-islanding protection | Yes |
| LVRT | Yes |
| DC reverse connection protection | Yes |
| AC short circuit protection | Yes |
| Leakage current protection | Yes |
| DC switch | Integrated |
| DC fuse | Integrated |
| Overvoltage protection | Type II DIN rail surge arrester |
| System Data | |
| Max. efficienc | 98.3% |
| Max. European efficiency | 98.0% |
| Isolation method | Transformerless |
| Ingress protection rating | IP65 (Fan IP55) |
| Night power consumption | <1W |
| Operating ambient temperature range | -25~60°C (> 45°C derating) |
| Allowable relative humidity range | 0~95% non-condensation |
| Cooling method | Smart forced air cooling |
| Max. operating altitude | 4000m (> 2000m derating) |
| Display | Graphic LCD |
| Communication | RS485 |
| DC connection type | MC4 |
| AC connection type | Spring Clamp termina |
| Certification | VDE0126-1-1, EN62109-1,EN62109-2, G59/2, CEI-021, AS/NZS 3100, AS4777.2, AS4777.3, VDE-AR-N-4105, BDEW, CGC certification |
| Mechanical Data | |
| Dimensions (W x H x D) | 634 x 820 x 257mm |
| Mounting method | Wall bracket |
| Weight | 65kg |

Circuit Diagram:

