



## SG 30KTL/SG 30KTL-M

### 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
- Dual MPPT (SG30KTL-M)

### Efficient

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

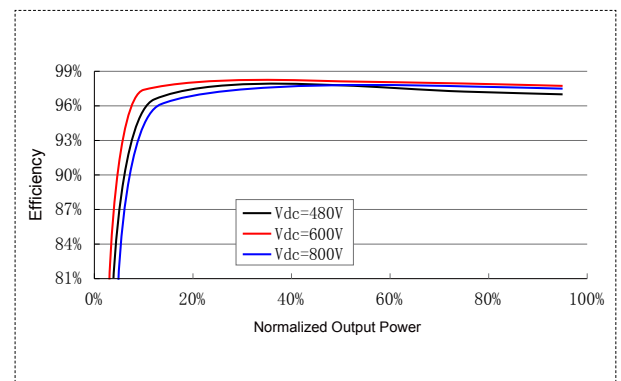
### Grid-friendly

- 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



|   |   |
|---|---|
| <p><b>Photon</b><br/>The Solar Power Magazine International</p> <p>Sungrow SG30KTL</p> <p><b>A</b></p> <p>97.5% for medium irradiation 2/2013</p> <p><a href="http://www.photon.info">www.photon.info</a></p> | <p><b>Photon</b><br/>The Solar Power Magazine International</p> <p>Sungrow SG30KTL</p> <p><b>A</b></p> <p>97.7% for high irradiation 2/2013</p> <p><a href="http://www.photon.info">www.photon.info</a></p> |
|---|---|

## Technical Specifications:

|                                     | SG 30KTL   | SG 30KTL-M    |
|-------------------------------------|--|---------------|
| <b>Input Side Data</b>              |  |               |
| 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  | 2             |
| Max. number of PV strings per MPPT  | 10   | 5             |
| Max. PV input current               | 66A  | 66A (33A/33A) |
| Max. current for input connector    | 10A  |               |
| Short-circuit current of PV input   | 80A  | 80A (40A/40A) |
| <b>Output Side Data</b>             |  |               |
| 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 overexcited ~0.9 underexcited)   |               |
| <b>Protection</b>                   |  |               |
| 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  |               |
| <b>System Data</b>                  |  |               |
| Max. efficiency                     | 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 |               |
| <b>Mechanical Data</b>              |  |               |
| Dimensions (W x H x D)              | 634 x 820 x 257mm  |               |
| Mounting method                     | Wall bracket   |               |
| Weight                              | 65kg   |               |

## Circuit Diagram:

