



## SG IK5TL

### Qualified

- CE, AS4777, CGC certification

#### Input Side Data

|                                     |          |
|-------------------------------------|----------|
| Max. PV input power                 | 1800W    |
| Max. PV input voltage               | 450V     |
| Startup voltage                     | 200V     |
| Nominal input voltage               | 360V     |
| MPP voltage range                   | 180~430V |
| MPP voltage range for nominal power | 200~400V |
| No. of MPPTs                        | 1        |
| Max. number of PV strings per MPPT  | 1        |
| Max. PV input current               | 10A      |
| Max. current for input connector    | 10A      |
| Short-circuit current of PV input   | 12.5A    |

#### Output Side Data

|                               |  |
|-------------------------------|--|
| Nominal AC output power       | 1500W  |
| Max. AC output apparent power | 1840VA   |
| Max. AC output current        | 8A   |
| Nominal AC voltage            | 230Vac (single-phase)  |
| AC voltage range              | 180~276Vac (May vary as per corresponding country's grid standard)       |
| Nominal grid frequency        | 50/60Hz  |
| Grid frequency range          | 45~55Hz/ 55~65Hz (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                                     |

#### Protection

|                                  |            |
|----------------------------------|------------|
| Anti-islanding protection        | Yes        |
| DC reverse connection protection | Yes        |
| AC short circuit protection      | Yes        |
| Leakage current protection       | No         |
| DC switch                        | Integrated |
| DC fuse                          | No         |
| Overvoltage protection           | Varistors  |

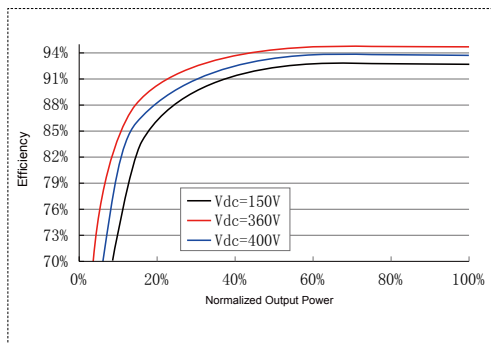
#### System Data

|                                     |  |
|-------------------------------------|--|
| Max. efficiency                     | 95.0%  |
| Max. European efficiency            | 94.0%  |
| Isolation method                    | Transformerless  |
| Ingress protection rating           | IP65   |
| Night power consumption             | <1W  |
| Operating ambient temperature range | -25~60°C (>45°C derating)  |
| Allowable relative humidity range   | 0~95% non-condensation   |
| Cooling method                      | Natural cooling  |
| Max. operating altitude             | 4000m (>2000m derating)  |
| Display                             | Graphic LCD  |
| Communication                       | RS485  |
| DC connection type                  | MC4  |
| AC connection type                  | Plug and play connector (Wieland RST25I3S)   |
| Certification                       | IEC61000-6-2, IEC61000-6-3, G83/1, AS/NZS3100, AS4777.2, AS4777.3, CGC certification |

#### Mechanical Data

|                    |               |
|--------------------|---------------|
| Dimensions (W×H×D) | 318×425×138mm |
| Mounting method    | Wall bracket  |
| Weight             | 14kg          |

### Efficiency Curve



### Circuit Diagram:

