

# Solis-25K-5G

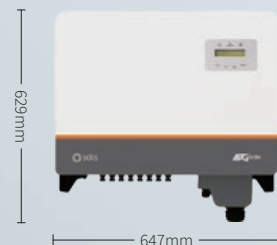
## Solis Three Phase Inverters



360 degree

### Features:

- ▶ Over 98.8% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 3 MPPT design with precise MPPT algorithm
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, supporting over 6MW paralleled in one transformer
- ▶ Perfect commercial site monitoring solution
- ▶ 130% DC overload ratio, 13A input for each PV string
- ▶ Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ Fuse free design to avoid fire hazard
- ▶ Type II surge arrester for both DC and AC
- ▶ Natural convection, Fan-less design, longer lifespan
- ▶ Leakage current repression technology
- ▶ Volt-watt work mode integrated
- ▶ DC input reverse alarm
- ▶ Intergrated Export Power Manager (EPM)



### Model:

400V: Solis-25K-5G

## Datasheet

| Model Name | Solis-25K-5G |
|------------|--------------|
|------------|--------------|

### Input DC

|                                       |             |
|---------------------------------------|-------------|
| Recommended max. PV power             | 33kW        |
| Max. input voltage                    | 1100V       |
| Rated voltage                         | 600V        |
| Start-up voltage                      | 180V        |
| MPPT voltage range                    | 200-1000V   |
| Max. input current                    | 26A/26A/26A |
| Max. short circuit current            | 40A/40A/40A |
| MPPT number/Max. input strings number | 3/6         |

### Output AC

|                            |                                   |
|----------------------------|-----------------------------------|
| Rated output power         | 25kW                              |
| Max. apparent output power | 27.5kVA                           |
| Max. output power          | 27.5kW                            |
| Rated grid voltage         | 3/N/PE, 220/380V, 230/400V        |
| Rated grid frequency       | 50/60Hz                           |
| Rated grid output current  | 38.0A/36.1A                       |
| Max. output current        | 41.8A                             |
| Power Factor               | >0.99 (0.8 leading - 0.8 lagging) |
| THDi                       | <3%                               |

### Efficiency

|                 |       |
|-----------------|-------|
| Max. efficiency | 98.8% |
| EU efficiency   | 98.3% |

### Protection

|                                |                         |
|--------------------------------|-------------------------|
| DC reverse-polarity protection | Yes                     |
| Short circuit protection       | Yes                     |
| Output over current protection | Yes                     |
| Surge protection               | DC Type II / AC Type II |
| Grid monitoring                | Yes                     |
| Anti-islanding protection      | Yes                     |
| Temperature protection         | Yes                     |
| Strings monitoring             | Yes                     |
| I/V Curve scanning             | Yes                     |
| Anti-PID function              | Optional                |
| Integrated DC switch           | Optional                |

### General Data

|                                     |                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Dimensions (W*H*D)                  | 647*629*252 mm                                                                                                 |
| Weight                              | 45kg                                                                                                           |
| Topology                            | Transformerless                                                                                                |
| Self consumption                    | <1W (night)                                                                                                    |
| Operating ambient temperature range | -25 ~ +60°C                                                                                                    |
| Relative humidity                   | 0-100%                                                                                                         |
| Ingress protection                  | IP65                                                                                                           |
| Cooling concept                     | Natural convection                                                                                             |
| Max. operation altitude             | 4000m                                                                                                          |
| Grid connection standard            | VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, IEC61727, DEWA |
| Safety/EMC standard                 | IEC62109-1/-2, EN61000-6-2, EN61000-6-3                                                                        |

### Features

|               |                              |
|---------------|------------------------------|
| DC connection | MC4 connector                |
| AC connection | OT terminal                  |
| Display       | LCD, 2×20 Z                  |
| Communication | RS485, Optional: Wi-Fi, GPRS |