

Solis-3P15K-4G

Solis 4G Three Phase Inverters



360 degree

Features:

- ▶ Over 98.7% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Multiple protections levels
- ▶ Intergrated Export Power Manager (EPM)



Model:

Solis-3P15K-4G

Datasheet

| | |
|------------|----------------|
| Model Name | Solis-3P15K-4G |
|------------|----------------|

Input DC

| | |
|---------------------------------------|-------------|
| Recommended max. PV power | 18kW |
| Max. input voltage | 1000V |
| Rated voltage | 600V |
| Start-up voltage | 180V |
| MPPT voltage range | 160-850V |
| Max. input current | 22A/22A |
| Max. short circuit current | 34.3A/34.3A |
| MPPT number/Max. input strings number | 2/4 |

Output AC

| | |
|----------------------------|-----------------------------------|
| Rated output power | 15kW |
| Max. apparent output power | 16.5kVA |
| Max. output power | 16.5kW |
| Rated grid voltage | 3/N/PE, 220/380V, 230/400V |
| Rated grid frequency | 50/60Hz |
| Rated grid output current | 22.8A/21.7A |
| Max. output current | 23.8A |
| Power Factor | >0.99 (0.8 leading - 0.8 lagging) |
| THDi | <1.5% |

Efficiency

| | |
|-----------------|-------|
| Max. efficiency | 98.7% |
| EU efficiency | 98.1% |

Protection

| | |
|--------------------------------|----------|
| DC reverse-polarity protection | Yes |
| Short circuit protection | Yes |
| Output over current protection | Yes |
| Surge protection | Yes |
| Grid monitoring | Yes |
| Anti-islanding protection | Yes |
| Temperature protection | Yes |
| Integrated DC switch | Optional |

General Data

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (W*H*D) | 310*563*219 mm |
| Weight | 18.9kg |
| Topology | Transformerless |
| Self consumption | <1W (night) |
| Operating ambient temperature range | -25 ~ +60°C |
| Relative humidity | 0-100% |
| Ingress protection | IP65 |
| Cooling concept | Intelligent redundant fan-cooling |
| 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, RD 1699, UNE 206006, UNE 206007-1, IEC 61727 |
| Safety/EMC standard | IEC 62109-1/-2, IEC 62116, EN 61000-6-1/-2/-3/-4 |

Features

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