

Solis-(100-125)K-5G

Solis Three Phase Inverters



Model:

400V: Solis-100K-5G
Solis-110K-5G

480V: Solis-125K-HV-5G



360 degree



Efficient

- ▶ 10 MPPTs, max. efficiency 99%
- ▶ > 150% DC/AC ratio
- ▶ High power tracking density 90MPPT/MW
- ▶ Compatible with bifacial modules



Safe

- ▶ AFCI protection, proactively reduces fire risk
- ▶ Built-in PID recovery for better module performance (optional)
- ▶ Type I SPD for AC (optional)
- ▶ Overvoltage load reduction and leakage current suppression technology, low failure rate
- ▶ Globally recognised branded componentry for longer life



Smart

- ▶ Night SVG function
- ▶ Intelligent string monitoring. Smart I-V curve scan
- ▶ Remote firmware upgrade with simple operation



Economic

- ▶ Power line communication (PLC) (optional)
- ▶ Support "Y" type connection in DC side
- ▶ Supports aluminium wire access to reduce cost

Datasheet

| Model Name | Solis-100K-5G | Solis-110K-5G | Solis-125K-HV-5G |
|---|--|---------------|------------------|
| Input DC | | | |
| Max. input voltage | 1100V | | |
| Rated voltage | 600V | | 720V |
| Start-up voltage | 195V | | |
| MPPT voltage range | 180-1000V | | |
| Max. input current | 10*26A | | |
| Max. short circuit current | 10*40A | | |
| MPPT number/Max. input strings number | 10/20 | | |
| Output AC | | | |
| Rated output power | 100kW | 110kW | 125kW |
| Max. apparent output power | 110kVA | 121kVA | 137.5kVA |
| Max. output power | 110kW | 121kW | 137.5kW |
| Rated grid voltage | 3/N/PE, 220/380V, 230/400V | | 3/PE, 480V |
| Rated grid frequency | 50/60Hz | | |
| Rated grid output current | 152.0A | 167.1A | 150.4A |
| Max. output current | 167.1A | 183.8A | 165.4A |
| Power Factor | >0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | <3% | | |
| Efficiency | | | |
| Max. efficiency | 98.7% | | 99.0% |
| EU efficiency | 98.3% | | 98.5% |
| Protection | | | |
| DC reverse-polarity protection | Yes | | |
| Short circuit protection | Yes | | |
| Output over current protection | Yes | | |
| Surge protection | DC Type II / AC Type II (AC Type I optional) | | |
| Grid monitoring | Yes | | |
| Anti-islanding protection | Yes | | |
| Strings monitoring | Yes | | |
| I/V Curve scanning | Yes | | |
| Anti-PID function | Optional | | |
| Integrated AFCI (DC arc-fault circuit protection) | Yes | | |
| Integrated DC switch | Yes | | |
| Integrated AC switch | Optional | | |
| General Data | | | |
| Dimensions (W*H*D) | 1065*567*344.5 mm | | |
| Weight | 84kg | | |
| Topology | Transformerless | | |
| Self consumption | <2W (night) | | |
| Operating ambient temperature range | -25 ~ +60°C | | |
| Relative humidity | 0-100% | | |
| Ingress protection | IP66 | | |
| 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, DEWA | | |
| Safety/EMC standard | IEC 62109-1/-2, IEC 62116, EN 61000-6-2/-4 | | |
| Features | | | |
| DC connection | MC4 connector | | |
| AC connection | OT terminal (max. 185 mm ²) | | |
| Display | LCD | | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | | |