

Solis-(100-125)K-5G-AU

Solis Three Phase Inverters



Model:

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

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



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 diagnosis
- ▶ Remote firmware upgrade with simple operation



Economic

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

Datasheet

| Model Name | Solis-100K-5G-AU | Solis-110K-5G-AU | Solis-125K-HV-5G-AU |
|------------|------------------|------------------|---------------------|
|------------|------------------|------------------|---------------------|

Input DC

| | | | |
|---------------------------------------|------------|--|-------|
| Max. input voltage | 1100 V | | |
| Rated voltage | 600 V | | 720 V |
| Start-up voltage | 195 V | | |
| MPPT voltage range | 180-1000 V | | |
| Max. input current | 10*26 A | | |
| Max. short circuit current | 10*40 A | | |
| MPPT number/Max. input strings number | 10/20 | | |

Output AC

| | | | |
|----------------------------|-----------------------------------|---------|-------------|
| Rated output power | 100 kW | 110 kW | 125 kW |
| Max. apparent output power | 110 kVA | 121 kVA | 137.5 kVA |
| Max. output power | 110 kW | 121 kW | 137.5 kW |
| Rated grid voltage | 3/N/PE, 230 V / 400 V | | 3/PE, 480 V |
| Rated grid frequency | 50 Hz | | |
| Rated grid output current | 144.3 A | 158.8 A | 150.4 A |
| Max. output current | 158.8 A | 174.6 A | 165.4 A |
| 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 | 84 kg |
| Topology | Transformerless |
| Self consumption (night) | <2 W |
| Operating ambient temperature range | -25 ~ +60°C |
| Relative humidity | 0-100% |
| Ingress protection | IP66 |
| Cooling concept | Intelligent redundant fan-cooling |
| Max. operation altitude | 4000 m |
| Grid connection standard | AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530 |
| Safety/EMC standard | EC 62109-1/-2, IEC 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 |