



Leading Features

- ▶ Over 97% Max. efficiency
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Ultra wide input voltage range
- ▶ Compact and light design for one-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ RS 485, WiFi/GPRS (optional) interface
- ▶ Numerous protection functions
- ▶ WiFi and monitoring app available
- ▶ 5 years standard warranty, 10 years optional upgrade

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Datasheet

| Model | Solis-1K-2G | Solis-1.5K-2G | Solis-2K-2G | Solis-2.5K-2G | Solis-3K-2G | Solis-3.6K-2G | Solis-4K-2G | Solis-4.6K-2G | Solis-5K-2G |
|---|---|---------------|-------------|---------------|------------------|---------------|-------------|---------------|-------------|
| Energy source | PV | | | | | | | | |
| Input Side | | | | | | | | | |
| Max. DC input voltage (V) | 500 | | | | 600 | | | | |
| Start-up DC input voltage(V) | 80 | | | | | 120 | | | |
| MPPT operating range(V) | 70-400 | 100-400 | | | 100-500 | | | | |
| Max. DC input current(A) | 10 | | | | 10+10 | | 15+15 | | |
| Number of MPP/Max strings per MPPT | 1/1 | | | | 2/1 | | | | |
| Output Side | | | | | | | | | |
| Rated output power(kW) | 1 | 1.5 | 2 | 2.5 | 3 | 3.6 | 4 | 4.6 | 5 |
| Max. transient power(kW) | 1.1 | 1.7 | 2.2 | 2.8 | 3.3 | 4 | 4.4 | 5 | 5 |
| Rated AC grid voltage(V) | 230 | | | | | | | | |
| AC grid voltage range(V) | 180~270(adjustable) | | | | | | | | |
| Operating phase | Single | | | | | | | | |
| Rated AC grid output current(A) | 4.3 | 6.5 | 8.7 | 10.9 | 13 | 15.7 | 17.4 | 20 | 21.7 |
| Max. AC output current(A) | 5.2 | 8.1 | 10.5 | 13.3 | 15.7 | 16 | 21 | 23.8 | 23.8 |
| Output power factor | >0.99 | | | | | | | | |
| Grid current THD | Total THD<4% | | | | | | | | |
| DC injection current(mA) | <20 | | | | | | | | |
| Rated grid frequency(Hz) | 50/60 | | | | | | | | |
| Efficiency | | | | | | | | | |
| Max. efficiency | >96% | >96.5% | | | | >97% | >97% | | |
| Euro efficiency | >95.4% | >96% | | | | >96.4% | >96.5% | | |
| MPPT efficiency | >99.9% | >99.9% | | | | >99.9% | >99.9% | | |
| Protection | | | | | | | | | |
| Temperature protection | Yes | | | | | | | | |
| DC reverse-polarity protection | Yes | | | | | | | | |
| AC short circuit protection | Yes | | | | | | | | |
| AC output overcurrent protection | Yes | | | | | | | | |
| Output overvoltage protection-Varistor | Yes | | | | | | | | |
| Ground fault monitoring | Yes | | | | | | | | |
| Grid monitoring | Yes | | | | | | | | |
| Islanding protection | Yes | | | | | | | | |
| Integrated DC switch | Optional | | | | | | | | |
| General data | | | | | | | | | |
| Size(mm) | 339W*565H*164D | | | | 339W*565H*173D | | | | |
| Weight(kG) | 11.0 | | | | 14.5 | | 15.5 | | |
| Topology | Transformerless | | | | | | | | |
| Internal consumption | <1W (Night) | | | | | | | | |
| Running temperature | -25°C~60°C | | | | | | | | |
| Ingress protection | IP65 | | | | | | | | |
| Operating range utility frequency (Hz) | 47-52 or 57-62(adjustable) | | | | | | | | |
| Noise emission(typical) | <30 dBA | | | | | | | | |
| Cooling concept | Natural convection | | | | | | | | |
| Max.operating altitude without derating | 2000m | | | | | | | | |
| Designed lifetime | >20 years | | | | | | | | |
| Utility monitoring | Islanding protection V_{AC} , F_{AC} in accordance with UL 1741, G83/2, G59/2, AS4777, VDE 0126-1-1 | | | | | | | | |
| Operating surroundings humidity | 0~95% | | | | | | | | |
| EMC | EN61000-6-1:2007 | | | | EN61000-6-3:2007 | | | | |
| Features | | | | | | | | | |
| DC Connection | MC-4 mateable | | | | | | | | |
| AC Connection | IP67 rated plug | | | | | | | | |
| Display | LCD, 2 x 20 Z. | | | | | | | | |
| Interface | RS 485, WiFi/GPRS (optional) | | | | | | | | |
| Warranty | 5~10 Years | | | | | | | | |