



**Smaller but  
Smarter**



## Leading Features

- ▶ Compact and lightweight, visually pleasing for domestic environment
- ▶ 50V-400V input voltage range — ultra low startup
- ▶ G83/2 Certified
- ▶ Over 97% Max. efficiency
- ▶ Precise MPPT algorithm
- ▶ IP65 rated for external installation
- ▶ RS 485, WiFi/GPRS (optional) interface
- ▶ Multiple protections levels
- ▶ WiFi monitoring available — iphone and android app available
- ▶ 5 years standard warranty, 10 years optional upgrade

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# Datasheet

| Model                                   | Solis-mini-700  | Solis-mini-1000 | Solis-mini-1500 | Solis-mini-2000 | Solis-mini-2500 |
|---|---|-----------------|-----------------|-----------------|-----------------|
| Energy source                           | <b>PV</b>   |                 |                 |                 |                 |
| <b>Input Side</b>                       |   |                 |                 |                 |                 |
| Max. DC Power(kW)                       | 0.9   | 1.2             | 1.8             | 2.3             | 3               |
| Max. DC input voltage(V)                | 450   |                 |                 | 500             |                 |
| Start-up DC input voltage(V)            | 60  |                 |                 |                 |                 |
| MPPT operating range(V)                 | 50-400  |                 |                 |                 |                 |
| Max. DC input current(A)                | 10  |                 |                 |                 |                 |
| Number of MPP/Max strings per MPPT      | 1/1   |                 |                 |                 |                 |
| <b>Output Side</b>                      |   |                 |                 |                 |                 |
| Rated output power(kW)                  | 0.7   | 1.0             | 1.5             | 2.0             | 2.5             |
| Max. transient power(kW)                | 0.8   | 1.1             | 1.65            | 2.2             | 2.5             |
| Rated AC grid voltage(V)                | 230   |                 |                 |                 |                 |
| AC grid voltage range(V)                | 180-270(adjustable)   |                 |                 |                 |                 |
| Operating phase                         | Single  |                 |                 |                 |                 |
| Rated AC grid output current(A)         | 3.0   | 4.3             | 6.5             | 8.7             | 10.9            |
| Max. AC output current(A)               | 4.4   | 6.1             | 9.2             | 12.2            | 13.9            |
| Output power factor                     | >0.99   |                 |                 |                 |                 |
| Grid current THD                        | <3%   |                 |                 |                 |                 |
| DC injection current(mA)                | <20   |                 |                 |                 |                 |
| Rated grid frequency(Hz)                | 50/60   |                 |                 |                 |                 |
| <b>Efficiency</b>                       |   |                 |                 |                 |                 |
| Max. efficiency                         | 96.7%   |                 |                 |                 |                 |
| Euro efficiency                         | 96.2%   |                 |                 |                 |                 |
| MPPT efficiency                         | 99.9%   |                 |                 |                 |                 |
| <b>Protection</b>                       |   |                 |                 |                 |                 |
| 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  |                 |                 |                 |                 |
| <b>General data</b>                     |   |                 |                 |                 |                 |
| Size(mm)                                | 270W*433H*105D  |                 |                 |                 |                 |
| Weight(kg)                              | 5.2   | 5.6             |                 |                 |                 |
| 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 EN50438,G83/2, AS4777, VDE 0126-1-1 |                 |                 |                 |                 |
| Operating surroundings humidity         | 0~95%   |                 |                 |                 |                 |
| EMC                                     | EN61000-6-1:2007 EN61000-6-3:2007   |                 |                 |                 |                 |
| <b>Features</b>                         |   |                 |                 |                 |                 |
| 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  |                 |                 |                 |                 |