

# Three

## 15kW

### Solis Three PV Inverter

- ▶ Three phase output
- ▶ Precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ IP65 rated for outdoor installation
- ▶ RS485, WiFi/GPRS (optional) interface
- ▶ WiFi and monitoring app available
- ▶ Numerous protection functions
- ▶ 5 years standard warranty, 20 years optional upgrade



#### Model:

Solis-15K

#### Features:

Fanless  
Cooling  
Concept

Ultra wide  
Voltage  
Range

WiFi/GPRS  
Real time  
monitoring

Available on the iPhone  
App Store  
Available on the Android  
App Store

IP65

Weight  
29kg

# Datasheet

| Model                                | Solis-15K                                        |
|--------------------------------------|--------------------------------------------------|
| Energy Source                        | PV                                               |
| Input Side(DC)                       |                                                  |
| Max. DC input power(kW)              | 16.5                                             |
| Max. DC input voltage(V)             | 1000                                             |
| Start-up voltage(V)                  | 250                                              |
| MPPT voltage range(V)                | 200-800                                          |
| Max. input current(A)                | 18A+18A                                          |
| MPPT number/Max input strings number | 2/4                                              |
| Output Side (AC)                     |                                                  |
| Rated output power(kW)               | 15                                               |
| Max. apparent output power(kVA)      | 15                                               |
| Max. output power(kW)                | 15                                               |
| Rated grid voltage(V)                | 400                                              |
| Grid voltage range(V)                | 313-470                                          |
| Rated grid frequency(Hz)             | 50/60                                            |
| Operation phase                      | Three                                            |
| Rated grid output current(A)         | 21.7                                             |
| Max. output current(A)               | 25                                               |
| Power Factor (at rated output power) | 0.8...1...0.8                                    |
| THDi (at rated output power)         | <3%                                              |
| DC injection current(mA)             | <50                                              |
| Grid frequency range(Hz)             | 47-52 or 57-62                                   |
| Efficiency                           |                                                  |
| Max. efficiency                      | 98.3%                                            |
| EU efficiency                        | 97.5%                                            |
| MPPT efficiency                      | >99.5%                                           |
| Protection                           |                                                  |
| DC reverse-polarity protection       | Yes                                              |
| Short circuit protection             | Yes                                              |
| Output over current protection       | Yes                                              |
| Output over voltage protection       | Yes                                              |
| Insulation resistance monitoring     | Yes                                              |
| Residual current detection           | Yes                                              |
| Surge protection                     | Yes                                              |
| Islanding protection                 | Yes                                              |
| temperature protection               | Yes                                              |
| Integrated DC switch                 | Optional                                         |
| General Data                         |                                                  |
| Dimensions(mm)                       | 430W*613H*269D (mm)                              |
| Weight(kg)                           | 30                                               |
| Topology                             | Transformerless                                  |
| Self consumption (night)             | <1W(Night)                                       |
| Operating ambient temperature range  | -25~60°C                                         |
| Ingress protection                   | IP65                                             |
| Noise emission{typical}              | <30 dBA                                          |
| Cooling concept                      | Natural convection                               |
| Max.operation altitude               | 4000m                                            |
| Designed lifetime                    | >20years                                         |
| Grid connection standard             | EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727    |
| Relative humidity                    | 0~100%                                           |
| Safety/EMC standard                  | IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3, |
| Features                             |                                                  |
| DC connection                        | MC-4mateable                                     |
| AC connection                        | IP67rated plug                                   |
| Display                              | LCD,2×20 Z.                                      |
| Communication connections            | 4 pins RS485 connector                           |
| Warranty                             | 5 years standard (extend to 20 years)            |