

Three

20kW



Solis Three PV Inverter

- ▶ Three phase output
- ▶ Over 98.8% Max. efficiency
- ▶ 200V-1000V input voltage range
- ▶ 7.0" LCD color screen display
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ IP65 rated for outdoor installation
- ▶ RS485, WiFi/GPRS (optional) interface
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Multiple protection fuctions
- ▶ WiFi and monitoring app available
- ▶ 5 years standard warranty, 20 years optional upgrade

Model:

Solis-20K

Features:

Fanless
Cooling
Concept

Four
MPPT

7"
LCD

WiFi/GPRS
Real time
monitoring

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

IP65

Datasheet

| Model | Solis-20K |
|--------------------------------------|---|
| Energy Source | PV |
| Input Side(DC) | |
| Max. DC input power(kW) | 23 |
| Max. DC input voltage(V) | 1000 |
| Start-up voltage(V) | 350 |
| MPPT voltage range(V) | 200-800 |
| Max. input current(A) | 18A+18A+18A+18A |
| MPPT number/Max input strings number | 4/8 |
| Output Side (AC) | |
| Rated output power(kW) | 20 |
| Max. apparent output power(kVA) | 22 |
| Max. output power(kW) | 22 |
| Rated grid voltage(V) | 400 |
| Grid voltage range(V) | 304-460 |
| Rated grid frequency(Hz) | 50/60 |
| Operation phase | Three |
| Rated grid output current(A) | 28.7 |
| Max. output current(A) | 33.3 |
| 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 | 98.6% |
| EU efficiency | 98.3%/98.3% |
| MPPTefficiency | 99.9% |
| 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 | |
| Dimensins(mm) | 530W*700H*356.5D (mm) |
| Weight(kg) | 57.2 |
| 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% |
| Safty/EMC standard | IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3 |
| Features | |
| DC connection | MC-4mateable |
| AC connection | Terminal connectors |
| Display | 7.0"LCD color screen display |
| Communication connections | 4 pins RS485 connector , 2 RJ45 connector |
| Warranty | 5 years standard (extend to 20 years) |