

Solis-(20-33)K,Solis-30K-MX

Solis Three Phase Inverters



Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.7% Max. efficiency
- ▶ 200V-800V MPPT voltage range-ultra low startup
- ▶ 7.0" LCD color screen display
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ IP65 rated for outdoor installation
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-plus access to Android and Apple apps



Model:

- | | | |
|-----------|--------------|-----------|
| Solis-25K | Solis-25K | Solis-30K |
| Solis-33K | Solis-30K-MX | |

Datasheet

| Model Name | Solis-20K | Solis-25K | Solis-30K | Solis-33K | Solis-30K-MX |
|--|---|-----------|-----------|-----------|--------------|
| Input DC | | | | | |
| Max. DC input power(kW) | 27 | 33 | 40 | 44 | 40 |
| Max. DC input voltage(V) | 1000 | | | | |
| Nominal DC voltage(V) | 600 | | | | |
| Start-up voltage(V) | 350 | | | | |
| MPPT voltage range(V) | 200-800 | | | | |
| Max. input current(A/B/C/D) | 18A+18A+18A+18A | | | | |
| Max. Short Circuit current for each MPPT | 23.4A+23.4A+23.4A+23.4A | | | | |
| MPPT number/Max input strings number | 4/8 | | | | |
| Output AC | | | | | |
| Rated output power(kW) | 20 | 25 | 30 | 33 | 29.99 |
| Max. apparent output power(kVA) | 22 | 27.5 | 33 | 33 | 29.99 |
| Rated grid voltage(V) | 400 | | | | |
| Rated grid frequency(Hz) | 50/60 | | | | |
| Operation phase | Three Phase | | | | |
| Rated grid output current(A) | 28.7 | 36.1 | 43.3 | 47.8 | 43.3 |
| Max. output current(A) | 33.3 | 41.7 | 50 | 50 | 50 |
| Power Factor (at rated output power) | 0.8leading ... 0.8lagging | | | | |
| THDi (at rated output power) | <3% | | | | |
| Efficiency | | | | | |
| Max. efficiency | 98.6% | | | 98.7% | 98.6% |
| EU efficiency | 98.3% | | | | |
| MPPT efficiency | >99.9% | | | | |
| Protection | | | | | |
| DC reverse-polarity protection | Yes | | | | |
| Insulation resistance monitoring | Yes | | | | |
| Residual current detection | Yes | | | | |
| Surge protection | Yes | | | | |
| Islanding protection | Yes | | | | |
| Integrated DC switch | Optional | | | | |
| General Data | | | | | |
| Dimensions(mm) | 530W*700H*356.5D | | | | |
| Weight (kg) | 57.2 | 58.2 | | | |
| Topology | Transformerless | | | | |
| Self consumption (night) | <1W (Night) | | | | |
| Operating ambient temperature range | -25~60°C | | | | |
| Relative humidity | 0~100% | | | | |
| Ingress protection | IP65 | | | | |
| Noise emission(typical) | <30 dBA | | | | |
| Cooling concept | Natural convection | | | | |
| Max. operation altitude | 4000m | | | | |
| Grid connection standard | EN50438, AS4777, VDE0126-1-1, IEC61727, G99, IEC 62116 | | | | |
| Safety/EMC standard | IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 | | | | |
| Features | | | | | |
| DC connection | MC4 | | | | |
| AC connection | Terminal connectors | | | | |
| Display | 7.0" LCD color screen display | | | | |
| Communication connections | 4 pins RS485 connector , 2 RJ45 connector | | | | |
| Monitoring | WiFi or GPRS | | | | |
| Warranty | 5 years (extend to 20 years) | | | | |