

Solis-50K

Solis Three Phase Inverters



Features:

- ▶ Over 98.8% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ Four MPPT input, each rated current is 28.5A, compatible with high power module
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundancy fan



Model:

400V: Solis-50K

Datasheet

| Model Name | Solis-50K |
|---------------------------------------|---|
| Input DC | |
| Max. input power | 60kW |
| Max. input voltage | 1100V |
| Rated voltage | 600V |
| Start-up voltage | 200V |
| MPPT voltage range | 200-1000V |
| Max. input current | 4*28.5A |
| Max. Short Circuit current | 4*44.5A |
| MPPT number/Max. input strings number | 4/12 |
| Output AC | |
| Rated output power | 50kW |
| Max. apparent output power | 55kVA |
| Max. output power | 55kW |
| Rated grid voltage | 3/N/PE, 220/380V, 230/400V |
| Rated grid frequency | 50Hz/60Hz |
| Rated grid output current | 76.0A/72.2A |
| Max. output current | 83.3A |
| Power Factor | >0.99 (Adjustable from 0.8 leading to 0.8 lagging) |
| THDi | <3% |
| Efficiency | |
| Max. efficiency | 98.8% |
| EU efficiency | 98.4% |
| Protection | |
| DC reverse-polarity protection | Yes |
| Short circuit protection | Yes |
| Output over current protection | Yes |
| Surge protection (DC/AC) | Yes |
| Grid monitoring | Yes |
| Islanding protection | Yes |
| Temperature protection | Yes |
| Integrated DC switch | Optional |
| General Data | |
| Dimensions (W*H*D) | 630mm*700mm*357mm |
| Weight | 63kg |
| Topology | Transformerless |
| Self consumption | <1W (Night) |
| Operating ambient temperature range | -25~60°C |
| Relative humidity | 0~100% |
| Ingress protection | IP65 |
| Cooling concept | Intelligent redundant fan-cooling |
| Max. operation altitude | 4000m |
| Grid connection standard | VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC61727, DEWA |
| Safety/EMC standard | IEC 62109-1/-2, IEC62116, EN 61000-6-2/-4 |
| Features | |
| DC connection | MC4 |
| AC connection | OT Terminal connectors |
| Display | LCD, 2x20 Z. |
| Communication | RS485; WiFi/GPRS (optional) |