

String Inverter (SUN2000-42KTL)



| Technical Specifications | SUN2000-42KTL |
|--|--|
| | Efficiency |
| Max. Efficiency | 98.8% |
| European Efficiency | 98.4% |
| | Input |
| Max. DC Usable Power | 47,900 W |
| Max. Input Voltage | 1,100 V |
| Max. Current per MPPT | 22 A |
| Max. Short Circuit Current per MPPT | 30 A |
| Min. Operating Voltage / Start Input Voltage | 200 V / 250 V |
| Full Power MPPT Voltage Range | 580 V ~ 850 V |
| MPPT Operating Voltage Range | 200 V ~ 1000 V |
| Rated Input Voltage | 720 V |
| Max. Number of Inputs | 8 |
| Number of MPP Trackers | 4 |
| | Output |
| Rated AC Active Power | 42,000 W |
| Max. AC Apparent Power | 47,000 VA |
| Max. AC Active Power (cosφ=1) | 47,000 W ^[1] |
| Rated Output Voltage | 277V / 480V, 3W+PE |
| Rated AC Grid Frequency | 50 Hz / 60 Hz |
| Max. Output Current | 56.6 A |
| Adjustable Power Factor | 0.8 LG ... 0.8 LD |
| Max. Total Harmonic Distortion | < 3% |
| | Protection |
| Input-side Disconnection Device | Yes |
| Anti-Islanding Protection | Yes |
| DC Reverse-Polarity Protection | Yes |
| PV-array String Fault Monitoring | Yes |
| DC Surge Arrester | Type II |
| AC Surge Arrester | Type II |
| Insulation Monitoring | Yes |
| Residual Current Detection | Yes |
| | Communication |
| Display | LED Indicators |
| USB / Bluetooth +APP | Yes |
| RS485 | Yes |
| PLC | Yes |
| | General |
| Dimensions (W×H×D) | 930 × 550 × 260 mm (36.6 × 21.7 × 10.2 inch) |
| Weight | 55 kg (121 lb.) |
| Operation Temperature Range | -25 °C ~ 60 °C (-13°F ~ 140°F) |
| Cooling | Natural Convection |
| Operating Altitude | 0 ~ 4,000 m (13,123 ft.) |
| Relative Humidity | 4 ~ 100% |
| DC Connector | Amphenol H4 |
| AC Connector | Waterproof PG Terminal + OT Connector |
| Protection Rating | IP65 |
| Internal Consumption at Night | < 1 W |
| Topology | Transformerless |
| | Standards Compliance |
| Safety/EMC | EN/IEC 61000-1, EN/IEC 61000-2, EN/IEC 61000-3, EN/IEC 61000-4, EN/IEC 62109-1, EN/IEC 62109-2 |
| Grid Code | BDEW 2008, G59/3, UTE C 15-712-1 |

[1] 42,000W optional in settings

