

SUN2000-33KTL-A Smart String Inverter



Smart

8 strings intelligent monitoring



Efficient

Max. efficiency 98.6%



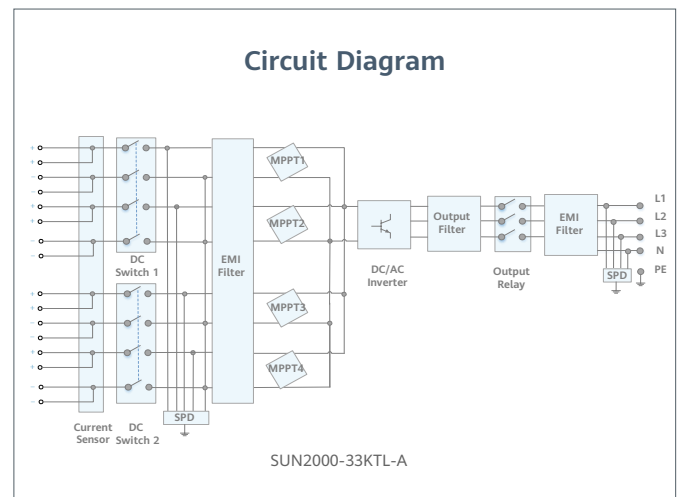
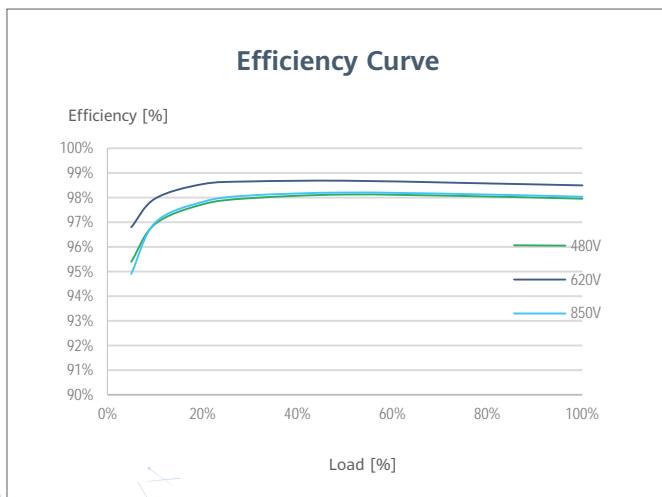
Safe

Fuse free design



Reliable

Type II surge arresters for DC & AC



SUN2000-33KTL-A
Technical Specification

| Technical Specification | SUN2000-33KTL-A |
|--|--|
| Efficiency | |
| Max. Efficiency | 98.6% |
| European Efficiency | 98.4% |
| Input | |
| Max. Input Voltage ¹ | 1,100 V |
| Max. Current per MPPT | 22 A |
| Max. Short Circuit Current per MPPT | 30 A |
| Start Voltage | 250 V |
| MPPT Operating Voltage Range ² | 200 V ~ 1,000 V |
| Rated Input Voltage | 620 V |
| Number of MPP trackers | 4 |
| Max. number of inputs | 8 |
| Output | |
| Rated AC Active Power | 30,000 W |
| Max. AC Apparent Power | 33,000 VA |
| Max. AC Active Power (cosφ=1) | 30,000 W |
| Rated Output Voltage | 230 V / 400 V, 3W + N + PE; |
| Rated AC Grid Frequency | 50 Hz / 60 Hz |
| Rated Output Current | 43.3 A |
| Max. Output Current | 48 A |
| Adjustable Power Factor Range | 0.8 leading... 0.8 lagging |
| Max. Total Harmonic Distortion | < 3% |
| Protection | |
| Input-side Disconnection Device | Yes |
| Anti-islanding Protection | Yes |
| AC Overcurrent Protection | Yes |
| DC Reverse-polarity Protection | Yes |
| PV-array String Fault Monitoring | Yes |
| DC Surge Arrester | Type II |
| AC Surge Arrester | Type II |
| DC Insulation Resistance Detection | Yes |
| Residual Current Monitoring Unit | Yes |
| Communication | |
| Display | LED Indicators, Bluetooth/WLAN + APP |
| RS485 | Yes |
| USB | Yes |
| Monitoring BUS (MBUS) | Yes |
| General Data | |
| Dimensions (W x H x D) | 930 x 550 x 283 mm (36.6 x 21.7 x 11.1 inch) |
| Weight (with mounting plate) | 62 kg (136.7 lb.) |
| Operating Temperature Range | -25 °C ~ 60 °C (-13°F ~ 140°F) |
| Cooling Method | Natural Convection |
| Max. Operating Altitude | 4,000 m (13,123 ft.) |
| Relative Humidity | 0 ~ 100% |
| DC Connector | Amphenol Helios H4 |
| AC Connector | Waterproof PG Terminal + OT Connector |
| Protection Degree | IP65 |
| Topology | Transformerless |
| Nighttime Power Consumption | < 2.5 W |
| Standard Compliance (more available upon request) | |
| Certificate | EN 62109-1/-2, IEC 62109-1/-2, IEC 62116 |
| Grid Code | IEC 61727, VDE-AR-N-4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699, P.O. 12.3, RD 413, C10/11, EN 50438-Turkey, ABNT |

¹ The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

² Any DC input voltage beyond the operating voltage range may result in inverter improper operating.