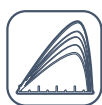


SUN2000-100KTL-M1

Smart String Inverter



10
MPP Trackers



98.8% (@480V)
Max. Efficiency



String-level
Management



Smart I-V Curve
Diagnosis Supported



MBUS
Supported



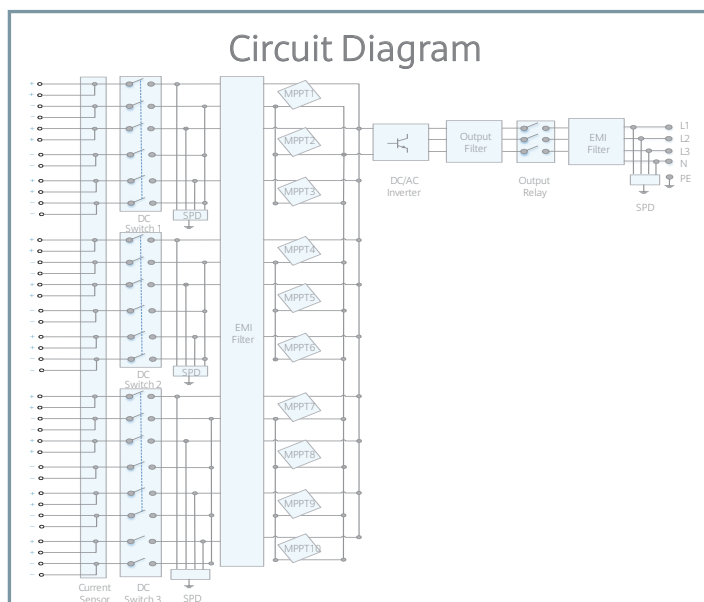
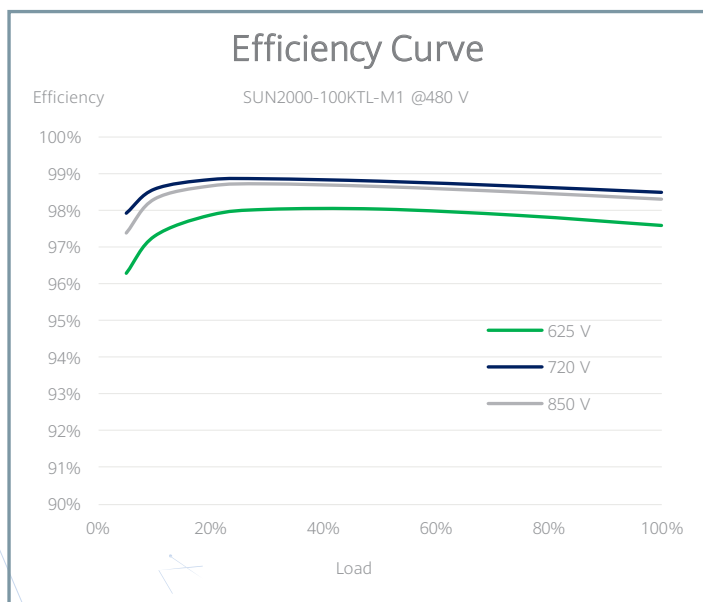
Fuse Free
Design



AFCI Protection
Optional



IP66
Protection



Technical Specifications

| Efficiency | |
|---|---|
| Max. Efficiency | 98.8% @480 V, 98.6% @380 V / 400 V |
| European Efficiency | 98.6% @480 V, 98.4% @380 V / 400 V |
| Input | |
| Max. Input Voltage | 1,100 V |
| Max. Current per MPPT | 26 A |
| Max. Short Circuit Current per MPPT | 40 A |
| Start Voltage | 200 V |
| MPPT Operating Voltage Range | 200 V ~ 1,000 V |
| Nominal Input Voltage | 720 V @480 Vac, 600 V @400 Vac, 570 V @380 Vac |
| Number of Inputs | 20 |
| Number of MPP Trackers | 10 |
| Output | |
| Nominal AC Active Power | 100,000 W |
| Max. AC Apparent Power | 110,000 VA |
| Max. AC Active Power (cos ϕ =1) | 110,000 W |
| Nominal Output Voltage | 480 V/ 400 V/ 380 V, 3W+(N)+PE |
| Rated AC Grid Frequency | 50 Hz / 60 Hz |
| Nominal Output Current | 120.3 A @480 V, 144.4 A @400 V, 152.0 A @380 V |
| Max. Output Current | 133.7 A @480 V, 160.4 A @400 V, 168.8 A @380 V |
| Adjustable Power Factor Range | 0.8 LG ... 0.8 LD |
| 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 Protection ¹ | Yes |
| AC Surge Protection ¹ | Yes |
| DC Insulation Resistance Detection | Yes |
| Residual Current Monitoring Unit | Yes |
| Arc Fault Protection | Optional |
| Communication | |
| Display | LED Indicators, WLAN + APP |
| USB | Yes |
| MBUS | Yes (isolation transformer required) |
| RS485 | Yes |
| General | |
| Dimensions (W x H x D) | 1,035 x 700 x 365 mm (40.7 x 27.6 x 14.4 inch) |
| Weight (with mounting plate) | 90 kg (198.4 lb.) |
| Operating Temperature Range | -25°C ~ 60°C (-13°F ~ 140°F) |
| Cooling Method | Smart Air Cooling |
| Max. Operating Altitude without Derating | 4,000 m (13,123 ft.) |
| Relative Humidity | 0 ~ 100% |
| DC Connector | Staubli MC4 |
| AC Connector | Waterproof Connector + OT/DT Terminal |
| Protection Degree | IP66 |
| Topology | Transformerless |
| Standard Compliance (more available upon request) | |
| Certificates | EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683 |

1- Compatible Type II protection class according to IEC / EN 61643-11