SUN2000-100KTL-M2

Smart PV Controller







10 MPP Trackers



98.8% (@480V) Max. Efficiency



String-level Management



Smart I-V Curve Diagnosis Supported



MBUS Supported



Support AFCI & Smart String Level Disconnector

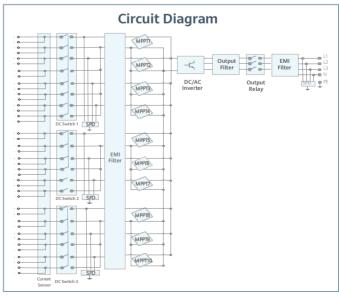


Surge Arresters for DC & AC



IP66 Protection





Technical Specification

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SUN2000-100KTL-M2

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|---|---|
| | |
| | Efficiency |
| Max. efficiency | 98.6% @ 400 V, 98.8% @ 480 V |
| European efficiency | 98.4% @ 400 V, 98.6% @ 480 V |
| | Innut |
| May Innut Valtage 1 | Input |
| Max. Input Voltage ¹ | 1,100 V |
| Max. Current per MPPT | 30 A |
| Max. Current per Input ³ | 20 A |
| Max. Short Circuit Current per MPPT | 40 A |
| Start Voltage | 200 V |
| MPPT Operating Voltage Range ² | 200 V ~ 1,000 V |
| Nominal Input Voltage | 600 V @ 400 Vac, 720 V @ 480 Vac |
| Number of MPP trackers | 10 |
| Max. input number per MPP tracker | 2 |
| | Outroot |
| | Output |
| Nominal AC Active Power | 100,000 W |
| Max. AC Apparent Power | 110,000 VA |
| Max. AC Active Power (cosφ=1) | 110,000 W |
| Nominal Output Voltage | 380 V/ 400 V/ 480 V, 3W+(N)+PE |
| Rated AC Grid Frequency | 50 Hz / 60 Hz |
| Nominal Output Current | 144.4 A @ 400 V, 120.3 A @ 480 V |
| Max. Output Current | 160.4 A @ 400 V, 133.7 A @ 480 V |
| Adjustable Power Factor Range | 0.8 leading 0.8 lagging |
| Max. Total Harmonic Distortion | < 3% |
| | Protection |
| lands alda Diagona atlan Dada | |
| 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 |
| Arc Fault Protection | Yes |
| Smart String Level Disconnector | Yes |
| | Communication |
| Display | LED indicators; WLAN adaptor + FusionSolar APP |
| RS485 | Yes |
| JSB | Yes |
| Smart Dongle-4G | Smart Dongle – 4G / WLAN (Optional) |
| Monitoring BUS (MBUS) | Yes (isolation transformer required) |
| | Canaval Data |
| Dimensions (W x H x D) | General Data 1,035 x 700 x 365 mm |
| Weight (with mounting plate) | 1,035 x 700 x 303 Hilli ≤93 kq |
| | · · |
| Operating Temperature Range | -25°C ~ 60°C |
| Cooling Method | Smart Air Cooling |
| Max. Operating Altitude | 4,000 m (13,123 ft.) |
| Relative Humidity | 0 ~ 100% |
| DC Connector | Amphenol Helios H4 |
| AC Connector | Waterproof Connector + OT/DT Terminal |
| Protection Degree | IP66 |
| Topology | Transformerless |
| Nighttime Power Consumption | < 3.5 W |
| | Ctondard Compliance (many and labels |
| Certificate | Standard Compliance (more available upon request) EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683 |
| Grid Connection Standards | VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11 |

*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.
*3 Single-string access.

VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11