

SUN2000-150K-MG0 Smart PV Controller



Arc Fault Protection



PV Ground-Fault Protection



PID Recovery



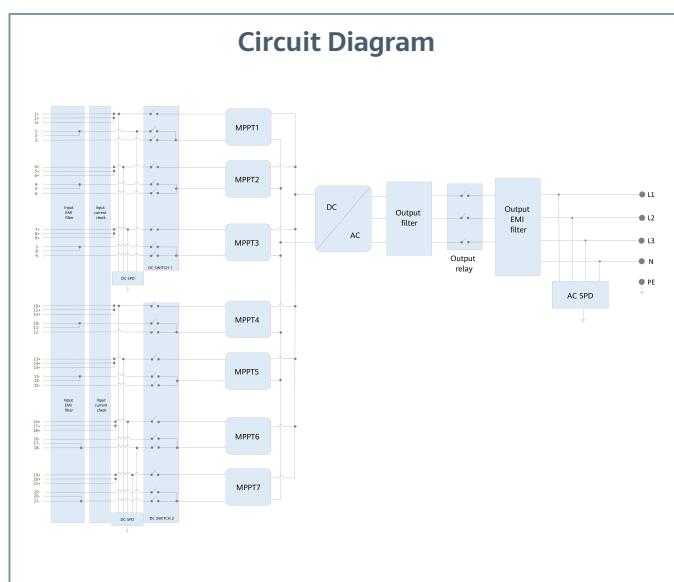
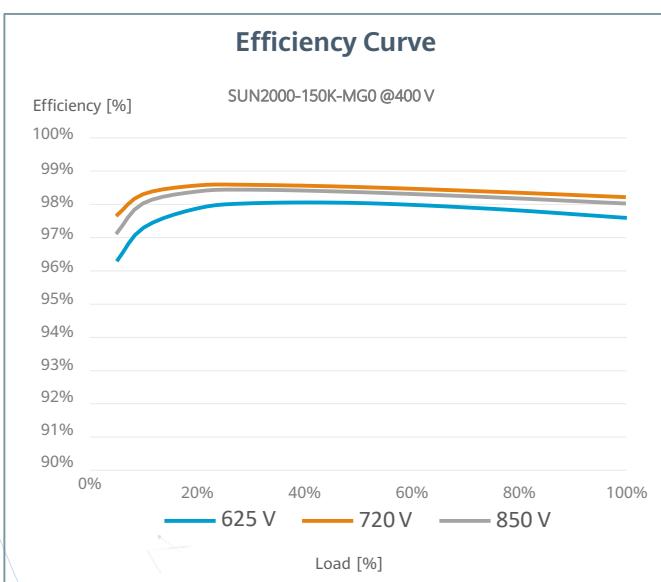
Smart String Level Disconnector



Smart Connector Temperature Detector



MBUS



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SUN2000-150K-MG0
Technical Specification

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SUN2000-150K-MG0

| | | Efficiency |
|---|---|--|
| Max. efficiency | | 98.6% @400V, 98.8% @480V |
| European efficiency | | 98.4% |
| | | Input |
| Max. Input Voltage ¹ | | 1,100 V |
| Max. Current per MPPT | | 48A |
| Max. Current per Input | | 23A |
| Max. Short Circuit Current per MPPT | | 66A |
| Start Voltage | | 200 V |
| MPPT Operating Voltage Range ² | | 200 V ~ 1,000 V |
| Number of MPP trackers | | 7 |
| Max. input number per MPP tracker | | 3 |
| | | Output |
| Nominal AC Active Power | | 150,000 W |
| Max. AC Apparent Power | | 165,000 VA |
| Max. AC Active Power ($\cos\phi=1$) | | 165,000 W |
| Nominal Output Voltage | | 380 V/400 V/480Vac |
| Rated AC Grid Frequency | | 50 Hz / 60 Hz |
| Nominal Output Current | | 227.9 A @380 V, 216.5 A @400 V, 180.4A @480Vac |
| Max. Output Current | | 253.2 A @380 V, 240.5 A @400 V, 200.5A @480Vac |
| Adjustable Power Factor Range | | 0.8 leading... 0.8 lagging |
| alternating current THDi | | <1% |
| | | Protection |
| 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 |
| Smart String Level Disconnector | | Yes |
| Arc Fault Protection | | Yes |
| Terminal Temperature Detection | | Yes |
| PID Recovery | | Yes |
| PV Ground-Fault Protection | | Yes |
| | | Communication |
| Display | | LED indicators; WLAN adaptor + FusionSolar APP |
| RS485 | | Yes |
| USB | | Yes |
| Smart Dongle-4G | | Smart Dongle – 4G / WLAN (Optional) |
| Monitoring BUS (MBUS) | | Yes (isolation transformer required) |
| | | General Data |
| Dimensions (W x H x D) | | 1,000 x 710 x 395 mm |
| Weight (without mounting plate) | | ≤ 99 kg |
| 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 HH4 |
| AC Connector | | Waterproof Connector + OT/DT Terminal |
| Protection Degree | | IP66 |
| Topology | | Transformerless |
| | | Standard Compliance (more available upon request) |
| Certificate | EN 62109-1/-2, IEC 62109-1/-2, 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 | |

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- * 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.