SUN2000-150K-MG0

Smart PV Controller







Arc Fault Protection



PV Ground-Fault Protection



PID Recovery



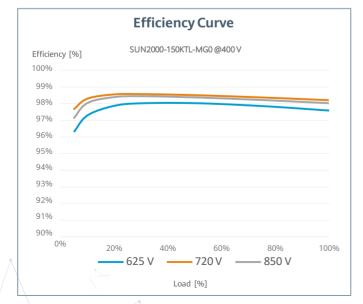
Smart String Level Disconnector

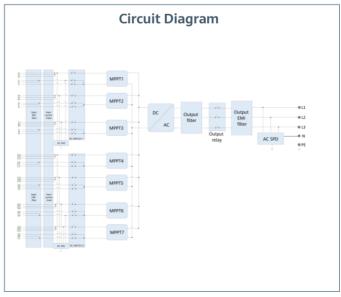


Smart Connector Temperature Detector



MBUS





[•] This datasheet only shows Preliminary Version, the information may change. Please contact with HW local supplier for the latest version

Technical Specification

SUN2000-150K-MG0

Efficiency

| | 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 (cosφ=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 (with mounting plate) | 102 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)
EN 62109-1/-2, IEC 62109-1/-2, IEC 62116, IEC 61727, IEC 60068, IEC 61683
VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11 Certificate Grid Connection Standards

[•] This datasheet only shows Preliminary Version, the information may change. Please contact with HW local supplier for the latest version

^{* 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.