

# Smart String Inverter (SUN2000-60KTL-M0)



## Smart

- 6 MPPTs for versatile adaptations to different layouts
- 12 strings intelligent monitoring and fast trouble-shooting
- Power Line Communication (PLC) supported
- Smart String I-V Diagnosis supported

## Efficient

- Max. efficiency 98.9%, European efficiency 98.7% @480Vac
- Max. efficiency 98.7%, European efficiency 98.5% @400Vac

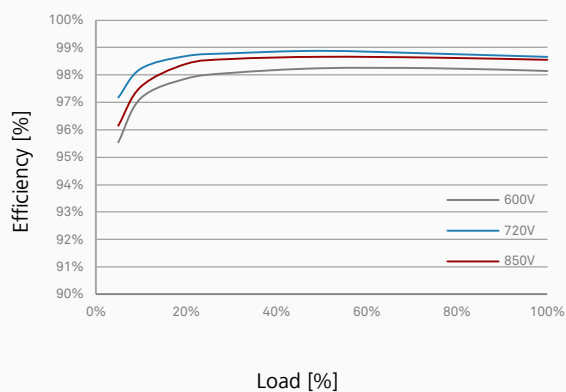
## Safe

- DC disconnect integrated, safe and convenient for maintenance
- Type II surge arresters for both DC and AC
- Ground fault protection
- Residual Current Monitoring Unit (RCMU) integrated inside

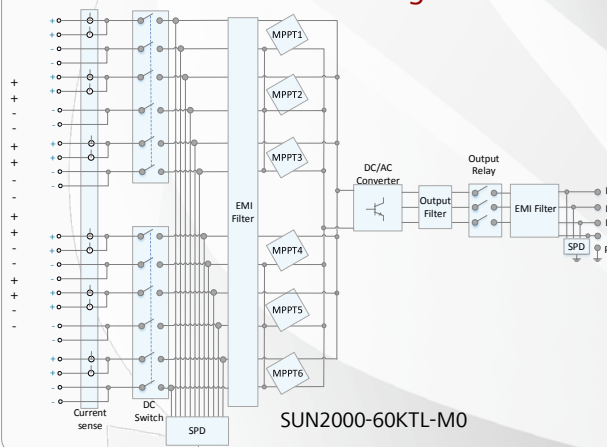
## Reliable

- No need for external fans with natural cooling technology
- Protection rating of IP65

Efficiency Curve



Circuit Diagram



# Smart String Inverter (SUN2000-60KTL-M0)



| Technical Specifications            | SUN2000-60KTL-M0                                                                          |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Efficiency</b>                   |                                                                                           |
| Max. Efficiency                     | 98.9% @480Vac; 98.7% @400Vac                                                              |
| European Efficiency                 | 98.7% @480Vac; 98.5% @400Vac                                                              |
| <b>Input</b>                        |                                                                                           |
| Max. DC Usable Power                | 67,400 W                                                                                  |
| Max. Input Voltage                  | 1,100 V                                                                                   |
| Max. Current per MPPT               | 22 A                                                                                      |
| Max. Short Circuit Current per MPPT | 30 A                                                                                      |
| Start Voltage                       | 200 V                                                                                     |
| MPPT Operating Voltage Range        | 200 V~1,000 V                                                                             |
| Rated Input Voltage                 | 600V @380/400Vac; 720V @480Vac                                                            |
| Max. Number of Inputs               | 12                                                                                        |
| Number of MPP Trackers              | 6                                                                                         |
| <b>Output</b>                       |                                                                                           |
| Rated AC Active Power               | 60,000 W                                                                                  |
| Max. AC Apparent Power              | 66,000 VA                                                                                 |
| Max. AC Active Power (cosφ=1)       | 66,000 W                                                                                  |
| Rated Output Voltage                | 220V / 380V, 230V / 400V, default 3W+N+PE; 3W+PE optional in settings<br>277V/480V, 3W+PE |
| Rated Output Current                | 91.2A @380Vac, 86.7A @400Vac, 72.2A @480Vac                                               |
| Rated AC Grid Frequency             | 50 Hz / 60 Hz                                                                             |
| Max. Output Current                 | 100A @380Vac, 95.3A @400Vac, 79.4A @480Vac                                                |
| Adjustable Power Factor             | 0.8 LG ... 0.8 LD                                                                         |
| Max. Total Harmonic Distortion      | < 3%                                                                                      |
| <b>Protection</b>                   |                                                                                           |
| Input-side Disconnection Device     | Yes                                                                                       |
| Anti-Islanding Protection           | Yes                                                                                       |
| DC Reverse-Polarity Protection      | Yes                                                                                       |
| PV-array String Fault Monitoring    | Yes                                                                                       |
| DC Surge Arrester                   | Type II                                                                                   |
| AC Surge Arrester                   | Type II                                                                                   |
| Insulation Detection                | Yes                                                                                       |
| Residual Current Monitoring Unit    | Yes                                                                                       |
| <b>Communication</b>                |                                                                                           |
| Display                             | LED Indicators, Bluetooth + APP                                                           |
| RS485                               | Yes                                                                                       |
| USB                                 | Yes                                                                                       |
| PLC                                 | Yes                                                                                       |
| <b>General</b>                      |                                                                                           |
| Dimensions ( W x H x D )            | 1075 x 555 x 300 mm (42.3 x 21.9 x 11.8 inches)                                           |
| Weight (with mounting plate )       | 74 kg (163.1 lb. )                                                                        |
| Operation Temperature Range         | -25°C ~ 60°C (-13°F ~ 140°F )                                                             |
| Cooling                             | Natural Convection                                                                        |
| Max. Operating Altitude             | 4,000 m                                                                                   |
| Relative Humidity                   | 0~100%                                                                                    |
| DC Connector                        | Amphenol Helios H4                                                                        |
| AC Connector                        | Waterproof PG Terminal + OT Connector/Clamp                                               |
| Protection Rating                   | IP65                                                                                      |
| Topology                            | Transformerless                                                                           |

Always Available for Highest Yields



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