Smart String Inverter
SUN2000-60KTL-M0

- **Smart**
  - 12 strings intelligent monitoring and fast trouble-shooting
  - Power Line Communication (PLC) supported
  - Smart I-V Curve Diagnosis supported

- **Efficient**
  - Max. efficiency 98.9%, European efficiency 98.7%
  - 6 MPPTs for versatile adaptions to different layouts

- **Safe**
  - DC disconnect integrated, safe and convenient for maintenance
  - Residual Current Monitoring Unit (RCMU) integrated inside
  - Fuse free design

- **Reliable**
  - Natural cooling technology
  - Protection rating of IP65
  - Type II surge arresters for both DC and AC
# Technical Specifications

## SUN2000-60KTL-M0

### Efficiency
- Max. Efficiency: 98.9% @480 V, 98.6% @400 V
- European Efficiency: 98.7% @480 V, 98.5% @400 V

### Input
- 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: 720 V / 480 V, 600 V / 400 V
- Max. Number of Inputs: 12
- Number of MPP Trackers: 6

### Output
- Rated AC Active Power: 60,000 W
- Max. AC Apparent Power: 66,000 VA
- Max. AC Active Power (cos φ = 1): 66,000 W
- Rated Output Voltage: 480 V, 3W+PE; 220 V / 380 V, 230 V / 400 V, default 3W+N+PE, 3W+PE optional in settings
- Rated Output Current: 72.2 A @ 480 Vac, 86.7 A @ 400 Vac
- Rated AC Grid Frequency: 50 Hz / 60 Hz
- Max. Output Current: 79.4 A @ 480 Vac, 95.3 A @ 400 Vac
- Adjustable Power Factor: 0.8 L ... 0.8 D
- Max. Total Harmonic Distortion: < 3%

### Protection
- 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

### Communication
- Display: LED Indicators, Bluetooth + APP
- RS485: Yes
- USB: Yes
- PLC: Yes

### General
- Dimensions (W x H x D): 1075 x 555 x 300 mm (42.3 x 21.9 x 11.8 inch)
- Weight (with mounting plate): 73 kg (161 lb.)
- Operation Temperature Range: -25°C ~ 60°C (-13°F ~ 140°F)
- Cooling: Natural Convection
- Max. Operating Altitude: 4,000 m (13,123 ft.)
- Relative Humidity: 0~100%
- DC Connector: Amphenol Helios H4
- AC Connector: Waterproof PG Terminal + OT Connector/Clamp
- Protection Rating: IP65
- Topology: Transformerless

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![Circuit Diagram](image-url)

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