

# SUN2000-36KTL Smart String Inverter



## Smart

8 strings intelligent monitoring



## Efficient

Max. efficiency 98.6%



## Safe

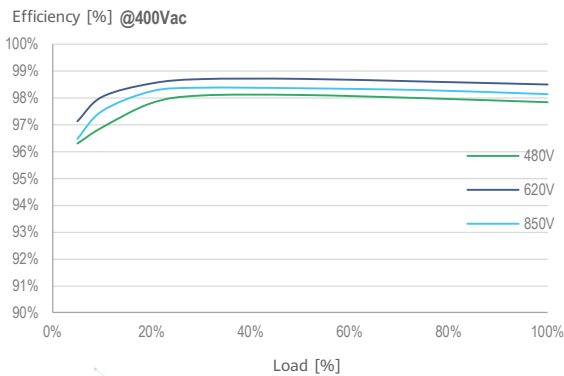
Fuse free design



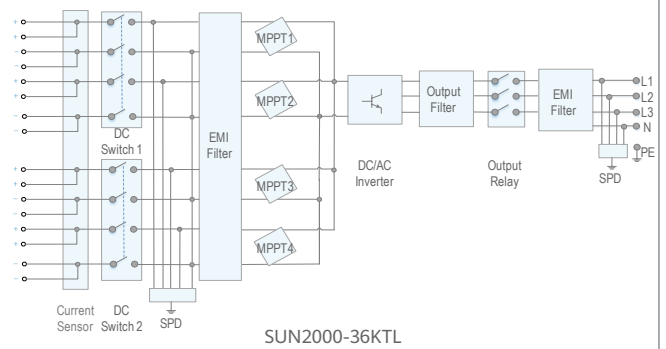
## Reliable

Type II surge arresters for DC & AC

### Efficiency Curve



### Circuit Diagram



|                         |               |
|-------------------------|---------------|
| Technical Specification | SUN2000-36KTL |
|-------------------------|---------------|

| Efficiency          |       |
|---------------------|-------|
| Max. Efficiency     | 98.6% |
| European Efficiency | 98.4% |

| Input                               |                 |
|-------------------------------------|-----------------|
| Max. Input Voltage                  | 1,100 V         |
| Max. Current per MPPT               | 22 A            |
| Max. Short Circuit Current per MPPT | 30 A            |
| Start Voltage                       | 250 V           |
| MPPT Operating Voltage Range        | 200 V ~ 1,000 V |
| Rated Input Voltage                 | 620 V           |
| Number of Inputs                    | 8               |
| Number of MPP Trackers              | 4               |

| Output                         |  |
|--------------------------------|--|
| Rated AC Active Power          | 36,000 W   |
| Max. AC Apparent Power         | 40,000 VA  |
| Max. AC Active Power (cosφ=1)  | Default 40,000 W; 36,000 W optional in settings  |
| Rated Output Voltage           | 220 V / 380 V, 230 V / 400 V, default 3W + N + PE; 3W + PE optional in settings<br>277 V / 480 V, 3W + PE (only for Central Latin America) |
| Rated AC Grid Frequency        | 50 Hz / 60 Hz  |
| Rated Output Current           | 54.6 A @380 V, 52.2 A @400 V, 43.4 A @480V   |
| Max. Output Current            | 60.8 A @380 V, 57.8 A @400 V, 48.2 A @480V   |
| Adjustable Power Factor Range  | 0.8 leading... 0.8 lagging   |
| Max. Total Harmonic Distortion | < 3%   |

| Protection                         |         |
|------------------------------------|---------|
| 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     |

| Communication         |                                 |
|-----------------------|---------------------------------|
| Display               | LED Indicators, Bluetooth + APP |
| RS485                 | Yes                             |
| USB                   | Yes                             |
| Monitoring BUS (MBUS) | Yes                             |

| General Data                 |  |
|------------------------------|--|
| Dimensions (W x H x D)       | 930 x 550 x 283 mm (36.6 x 21.7 x 11.1 inch) |
| Weight (with mounting plate) | 62 kg (136.7 lb.)                            |
| Operating Temperature Range  | -25°C ~ 60°C (-13°F ~ 140°F)                 |
| Cooling Method               | Natural Convection                           |
| Max. Operating Altitude      | 4,000 m (13,123 ft.)                         |
| Relative Humidity            | 0 ~ 100%                                     |
| DC Connector                 | Amphenol Helios H4                           |
| AC Connector                 | Cable Gland + OT Terminal                    |
| Protection Degree            | IP65   |
| Topology                     | Transformerless                              |

| Standard Compliance |   |
|---------------------|---|
| Safety              | EN 62109-1/-2, IEC 62109-1/-2   |
| Grid Code           | ABNT, IEC 61727, IEC 62116, VDE-AR-N4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699, P.O. 12.3, RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, PEA, Resolution No.7, NRS 097-2-1, DEWA, AS/NZS 4777.2, EN 50530, IEC 60068, IEC 61683 |