

# Smart String Inverter

SUN2000-36KTL



## Smart

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

## Efficient

- Max. efficiency 98.6%
- European efficiency 98.4%
- 4 MPPT per unit, effectively reducing string mismatch

## Safe

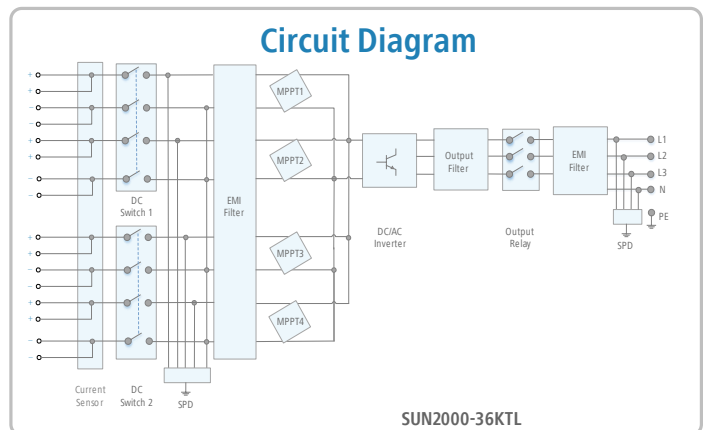
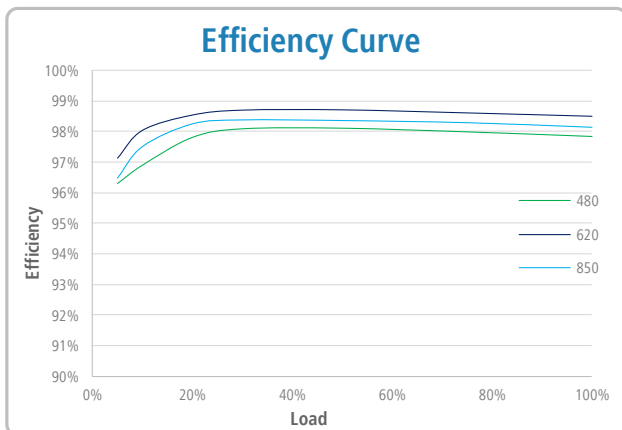
- DC switch integrated, safe and convenient for maintenance
- Residual Current Monitoring Unit (RCMU) integrated
- Fuse free design

## Reliable

- Natural cooling technology
- Protection degree of IP65
- Type II surge arresters for both DC and AC

# Smart String Inverter (SUN2000-36KTL)

| Technical Specifications            | SUN2000-36KTL                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------|
|                                     | <b>Efficiency</b>                                                               |
| Max. Efficiency                     | 98.6%                                                                           |
| European Efficiency                 | 98.4%                                                                           |
|                                     | <b>Input</b>                                                                    |
| 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                                                                               |
|                                     | <b>Output</b>                                                                   |
| 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 |
| Rated AC Grid Frequency             | 50 Hz / 60 Hz                                                                   |
| Rated Output Current                | 54.6 A @380 V, 52.2 A @400 V                                                    |
| Max. Output Current                 | 60.8 A @380 V, 57.8 A @400 V                                                    |
| Adjustable Power Factor Range       | 0.8 LG ... 0.8 LD                                                               |
| Max. Total Harmonic Distortion      | < 3%                                                                            |
|                                     | <b>Protection</b>                                                               |
| 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                                                                             |
|                                     | <b>Communication</b>                                                            |
| Display                             | LED Indicators, Bluetooth + APP                                                 |
| RS485                               | Yes                                                                             |
| USB                                 | Yes                                                                             |
| Power Line Communication (PLC)      | Yes                                                                             |
|                                     | <b>General</b>                                                                  |
| 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                        | Waterproof PG Terminal + OT Connector                                           |
| Protection Degree                   | IP65                                                                            |
| Topology                            | Transformerless                                                                 |
|                                     | <b>Standard Compliance (more available upon request)</b>                        |
| Certificate                         | EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683        |
| Grid Code                           | IEC 61727, AS/NZS 4777.2, G59/3, PEA, MEA, Resolution No.7, VDE 0126-1-1        |



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