

# Smart String Inverter

SUN2000-90KTL-H2



## Smart

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

## Efficient

- Max. efficiency 99.0%
- European Efficiency 98.8%
- 6 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

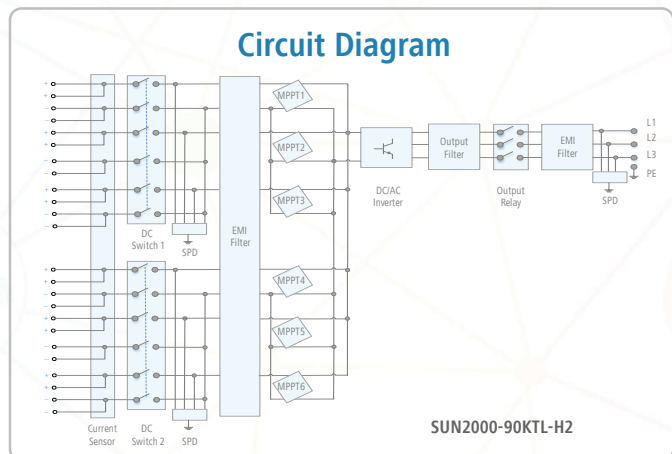
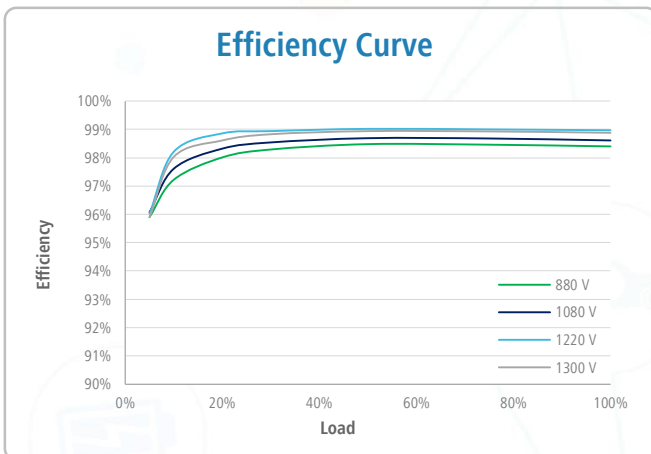
## Reliable

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

# Smart String Inverter (SUN2000-90KTL-H2)



| Technical Specifications            | SUN2000-90KTL-H2   |
|-------------------------------------|--|
|                                     | <b>Efficiency</b>  |
| Max. Efficiency                     | 99.0%  |
| European Efficiency                 | 98.8%  |
|                                     | <b>Input</b>   |
| Max. Input Voltage                  | 1,500 V  |
| Max. Current per MPPT               | 25 A   |
| Max. Short Circuit Current per MPPT | 33 A   |
| Start Voltage                       | 650 V  |
| MPPT Operating Voltage Range        | 600 V ~ 1,500 V  |
| Rated Input Voltage                 | 1,080 V  |
| Number of Inputs                    | 12   |
| Number of MPP Trackers              | 6  |
|                                     | <b>Output</b>  |
| Rated AC Active Power               | 90,000 W @50°C   |
| Max. AC Apparent Power              | 100,000 VA @40°C   |
| Max. AC Active Power (cosφ=1)       | 100,000 W @40°C  |
| Rated Output Voltage                | 800 V, 3W + PE   |
| Rated AC Grid Frequency             | 50 Hz / 60 Hz  |
| Rated Output Current                | 65.0 A   |
| Max. Output Current                 | 72.9 A   |
| 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)              | 1,075 x 605 x 310 mm (42.3 x 23.8 x 12.2 inch)           |
| Weight (with mounting plate)        | 79 kg (174.2 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 UTX   |
| AC Connector                        | Cable gland + OT/DT terminal                             |
| Protection Degree                   | IP65   |
| Topology                            | Transformerless  |
|                                     | <b>Standard Compliance (more available upon request)</b> |
| Certificate                         | EN 62109-1/-2, IEC 62109-1/-2                            |



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