

Smart String Inverter

SUN2000-8/12KTL



Smart

- 4 strings intelligent monitoring and fast trouble-shooting
- RS485 and USB ports for communication and data management
- Local graphic LCD display and remote monitoring

Efficient

- Max. efficiency 98.5%
- European efficiency 98.0%
- 2 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

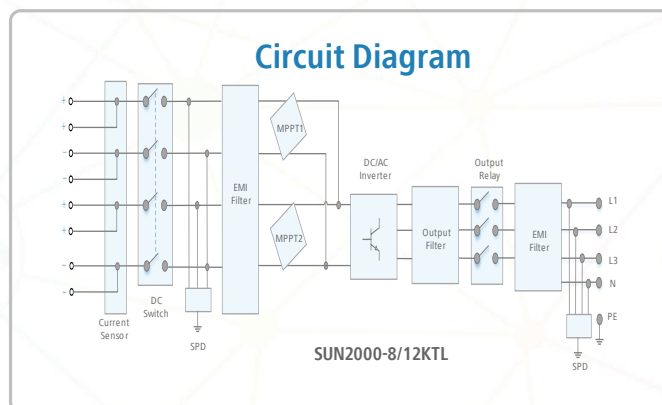
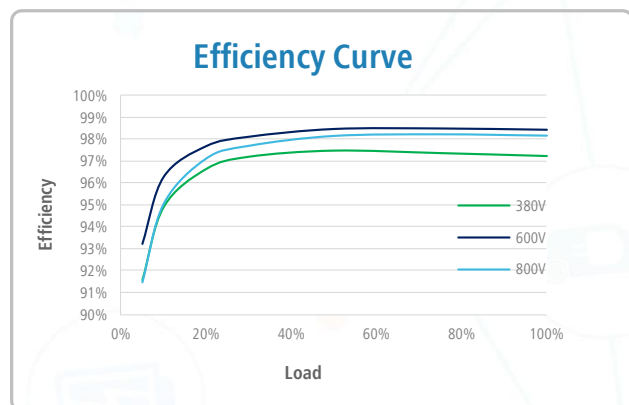
Reliable

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

Smart String Inverter (SUN2000-8/12KTL)



| Technical Specifications | SUN2000-8KTL | SUN2000-12KTL |
|--|--|--|
| Efficiency | | |
| Max. Efficiency | 98.5% | 98.5% |
| European Efficiency | 98.0% | 98.0% |
| Input | | |
| Max. Input Voltage | 1,000 V | 1,000 V |
| Max. Current per MPPT | 18 A | 18 A |
| Max. Short Circuit Current per MPPT | 25 A | 25 A |
| Start Voltage | 250 V | 250 V |
| MPPT Operating Voltage Range | 200 V ~ 950 V | 200 V ~ 950 V |
| Rated Input Voltage | 620 V | 620 V |
| Number of Inputs | 4 | 4 |
| Number of MPP Trackers | 2 | 2 |
| Output | | |
| Rated AC Active Power | 8,000 W | 12,000 W |
| Max. AC Apparent Power | 8,800 VA | 13,200 VA |
| Max. AC Active Power (cosφ=1) | 8,800 W | 13,200 W |
| Rated Output Voltage | 220 V / 380 V, 230 V / 400 V, 3W + N + PE | 220 V / 380 V, 230 V / 400 V, 3W + N + PE |
| Rated AC Grid Frequency | 50 Hz / 60 Hz | 50 Hz / 60 Hz |
| Rated Output Current | 12.2 A @380 V / 11.6 A @400 V | 18.3 A @380 V / 17.4 A @400 V |
| Max. Output Current | 13.4 A | 20 A |
| Adjustable Power Factor Range | 0.8 LG ... 0.8 LD | 0.8 LG ... 0.8 LD |
| Max. Total Harmonic Distortion | < 3% | < 3% |
| Protection | | |
| Input-side Disconnection Device | Yes | Yes |
| Anti-islanding Protection | Yes | Yes |
| AC Overcurrent Protection | Yes | Yes |
| DC Reverse-polarity Protection | Yes | Yes |
| PV-array String Fault Monitoring | Yes | Yes |
| DC Surge Arrester | Type II | Type II |
| AC Surge Arrester | Type II | Type II |
| DC Insulation Resistance Detection | Yes | Yes |
| Residual Current Monitoring Unit | Yes | Yes |
| Communication | | |
| Display | Graphic LCD | Graphic LCD |
| RS485 | Yes | Yes |
| USB | Yes | Yes |
| General | | |
| Dimensions (W x H x D) | 520 x 610 x 266 mm (20.5 x 24.0 x 10.5 inch) | 520 x 610 x 266 mm (20.5 x 24.0 x 10.5 inch) |
| Weight (with mounting plate) | 42 kg (92.6 lb.) | 42 kg (92.6 lb.) |
| Operating Temperature Range | -25°C ~ 60°C (-13°F ~ 140°F) | -25°C ~ 60°C (-13°F ~ 140°F) |
| Cooling Method | Natural Convection | Natural Convection |
| Max. Operating Altitude | 3,000 m (9,842 ft.) | 3,000 m (9,842 ft.) |
| Relative Humidity | 0 ~ 100% | 0 ~ 100% |
| DC Connector | Amphenol Helios H4 | Amphenol Helios H4 |
| AC Connector | Amphenol C16 / 3 | Amphenol C16 / 3 |
| Protection Degree | IP65 | IP65 |
| Topology | Transformerless | Transformerless |
| Standard Compliance (more available upon request) | | |
| Certificate | EN 62109-1/-2, IEC 62109-1/-2, IEC62116 | |
| Grid Code | ABNT, IEC 61727, NB/T 32004-2013, VDE-AR-N-4105, VDE 0126-1-1, G83/2 (Only 8KTL), G59/3 (Only 12KTL), UTE C 15-712-1, CEI 0-16, CEI 0-21, C10/11, EN 50438-Ireland, EN 50438-Turkey, AS 4777, PEA (Only 12KTL), MEA (Only 12KTL), NRS 0972-1 | |



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