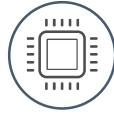




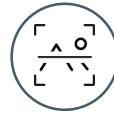
SUN2000-450W-P



One-Fits-All Optimizer
Easier Business



<1.5 min Pairing with Inverter



<5s Module Auto-Mapping



Arc Fault Pinpoint
Positioning

| Technical Specification | SUN2000-450W-P |
|-------------------------|----------------|
|-------------------------|----------------|

| | Input |
|-------------------------------------|----------|
| Rated Input DC Power ¹ | 450 W |
| Absolute maximum input voltage | 80 V |
| MPPT operating voltage range | 8 - 80 V |
| Maximum Short Circuit Current (Isc) | 13 A |
| Max. efficiency | 99.5 % |
| Weighted efficiency | 99.0 % |
| Overtoltage category | II |

| | Output |
|--|---------------|
| Max. output voltage | 80 V |
| Max. output current | 15 A |
| Output bypass ² | Yes |
| Shutdown output voltage per optimizer ³ | 0 V |
| Shutdown output impedance per optimizer | 1k ohm ± 10 % |

| | Standard Compliance |
|--------|------------------------------|
| Safety | IEC62109-1 (class II safety) |
| RoHS | Yes |

| | General Data |
|--|---|
| Dimension (W x H x D) | 71 x 138 x 25 mm (2.8 x 5.4 x 1.0 inch) |
| Weight (including cables) | 0.55 kg (1.2 lb.) |
| Installation part (optional) | Grounding Plate, Grounding Lug, PV Module Frame Plate |
| Input connector | MC4 |
| Output connector | MC4 |
| Output wire length | 1.2 m (3.9 ft.) ⁴ |
| Operating temperature / humidity range | -40 °C ~ 85 °C ⁵ / 0 %RH ~ 100 %RH |
| Degree of protection | IP68 |
| Compatible product | SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12/15/17/20KTL-M2 |

| Long String Design (Full Optimizer) | SUN2000-2-6KTL-L1 | SUN2000-3-10KTL-M1 | SUN2000-12-20KTL-M2 |
|-------------------------------------|-------------------|--------------------|---------------------|
| Minimum optimizer number per string | 4 | 6 | 6 |
| Maximum optimizer number per string | 25 | 50 | 50 |
| Maximum DC power per string | 5,000 W | 10,000 W | 10,000 W |

¹ Rated power of the module at STC shall not exceed "Rated Input DC Power" of power optimizer. Modules with power up to +5% power tolerance are acceptable.

² Power optimizer is bypassed in the string connected to an operating inverter when it fails to work.

³ Power optimizer output 0Vdc when disconnecting to the inverter or inverter is shutdown.

⁴ Fits PV module in landscape and portrait installation.

⁵ Full power capability refers to online smart design tool.