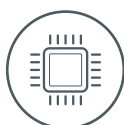


Smart PV Optimizer



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 %			
Overvoltage 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		Staubli MC4			
Output connector		Staubli MC4			
Input wire length		0.15 m (0.5 ft.)			
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, SUN2000-30/36/40KTL-M3 ⁶			
Long String Design (Full Optimizer)		SUN2000-2-6KTL-L1	SUN2000-3-10KTL-M1	SUN2000-12-20KTL-M2	SUN2000-30-40KTL-M3
Minimum optimizer number per string		4	6	6	6
Maximum optimizer number per string		25	50	50	26
Maximum DC power per string		5,000 W	10,000 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.

^{*6} SUN2000-30/36/40KTL-M3 is compatible with optimizer from 2021/03



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