

Smart PV Optimizer



One-Fits-All Optimizer
Easier Business



<5s Module Auto-Mapping



Arc Fault Pinpoint
Positioning Along PV Cable

Technical Specification		SUN2000-450W-P2	SUN2000-600W-P	
		Input		
Rated Input DC Power ¹		450 W		600 W
Absolute maximum input voltage			80 V	
MPPT operating voltage range			10 - 80 V	
Maximum Short Circuit Current (Isc)			14.5 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 %	
		Communication		
Communication Method			MBUS	
		Standard Compliance		
Safety			IEC62109-1 (class II safety)	
RoHS			Yes	
		General Data		
Dimension (W x H x D)			75 x 140 x 28 mm (3.0 x 5.5 x 1.1 inch)	
Weight (including cables)			0.6 kg (1.3 lb.)	
Installation part (optional)			Frame Mounting Bracket / T-shaped Bolt ⁴	
Input connector			MC4	
Input wire length			0.15m	
Output connector			MC4	
Output wire length			1.3 m (4.3 ft.) ⁵	
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	
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 ⁶	4	6	6	6
Maximum optimizer number per string	25	35	35	25
Maximum DC power per string	6.000 W	10.000 W	12.000 W	12.000 W

*1 In the STC environment, The rated power of the module shall not exceed 1.05 times of the optimizer rated input power.

*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 Allow PV module frame installation / extruded aluminum profile installation

*5 Fits PV module in landscape and portrait installation.

*6 Require standard 60 cells module to meet the inverter minimum startup voltage

*7 Full power capability refers to online smart design tool.

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