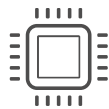


Smart PV Optimizer



One-Fits-All 60 & 72 Cell Crystalline Silicon PV Module



Hisilicon Chipset Inside <1.5 min Pairing with Inverter



Image Recognition <5s Module Physical View Auto Creation



Arc Fault Pinpoint Alert Along PV Cable

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 134 x 25 mm (2.8 x 5.3 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.