

Smart PV Optimizer

SUN2000-375W-USP0



Higher Yields

- Maximum flexibility for any roof configuration, install more panels on the roof
- Module-level MPPT adapted to all mismatch scenarios, up to 30% more energy

Simple & Easy

- More flexible system design capability with Huawei optimizers (6 to 25 per string)
- Faster physical layout creating and optimizer auto-mapping

Safe & Reliable

- Protection rating: TYPE 6P, support outdoor application
- Module-level rapid shutdown capability, no high voltage during installation, maintenance to ensure personnel safety

Smart Management

- Module-level monitoring to guarantee system performance and improve maintenance efficiency

Smart PV Optimizer (SUN2000-375W-USP0)



Technical Specification	SUN2000-375W-USP0
Input	
Rated input power	375 W
Absolute maximum input voltage	80 V
MPPT operating voltage range	10 - 80 V
Maximum input current	12 A
Maximum efficiency	99.5%
Weighted efficiency	99.0%
Overvoltage category	II
Output	
Maximum output voltage	80 V
Maximum output current	15 A
Output bypass	Yes
Standard Compliance	
EMC	FCC Part15 Class B
Safety	UL 1741, UL 1703, UL 2703
RoHS	Yes
General Specification	
Maximum allowed system voltage	600 V
Dimensions (W x H x D)	5.3 in x 3.3 in x 1.0 in (135 mm x 85 mm x 25.2 mm)
Weight (including cables)	1.7 lb. (0.8 kg)
Input connector	MC4
Output connector	MC4
Output wire length	47 inch (1.2 m)
Operating temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Humidity range	0 ~ 100 % RH
Protection rating	TYPE 6P
Monitoring	
Communication	Power Line Communication
Monitoring parameters	PV voltage, PV current, module temperature, output power, etc.
PV System Design Using A SUN2000 Inverter	
Min. string length (power optimizers)	6
Max. string length (power optimizers)	25
Max. power per string	5550 W
Parallel strings of different lengths or orientations	Yes

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