

Smart Energy Center



reddot award 2016
winner

Higher Revenue

- High efficiency inverter topology
- Max. efficiency 98.6%
- European weighted efficiency 98.0%

Simple & Easy

- 10.6kg, allows one person simple installation
- Optimized AC connector for quick wiring
- Supports one-click inverter configuration

Battery Ready

- Integrated Plug & Play energy storage interface

Safe & Reliable

- IP65, natural convection
- Integrated lightning protection for both DC and AC
- Zero export function with smart power sensor



Smart PV Optimizer



Higher Revenue

- Max. efficiency 99.5%, weighted efficiency 99.0%
- Allows more panels on each roof to achieve higher system yields

Simple & Easy

- Supports installation in shade prone areas and in different directions
- Quick frame mount at warehouse, less rooftop installation time
- Supports remote module-level monitoring with Smart PV Safety Box
- Communication through DC power line

Safe & Reliable

- IP68, supports outdoor application
- Module-level shutdown capability to secure people and assets safety

Technical Specification	SUN2000P-375W
	Input
Rated input power	375 W
Absolute maximum input voltage	80 V
MPPT operating voltage range	10 - 80 V
Max. input current	12 A
Max. efficiency	99.5 %
Weighted efficiency	99.0 %
Overvoltage category	II
	Output
Max. output voltage	80 V
Max. output current	10 A
Output bypass	Yes
	Standard Compliance
Safety	IEC62109-1 (class II safety)
RoHS	Yes
	General Specification
Maximum allowed system voltage	1,000 V
Communication	PLC
Dimension (W * H * D)	125 * 85 * 25.5 mm (4.9 * 3.3 * 1.0 inch)
Weight (including cables)	0.7 kg (1.5 lb.)
Installation part	Star Washer (standard) / Grounding Plate, Grounding Lug, PV Module Frame Plate (optional)
Input connector	MC4
Output connector	MC4
Output wire length	1.2 m (3.9 ft.)
Operating temperature / humidity range	-40 °C ~ 85 °C / 0 %RH ~ 100 %RH
Degree of protection	IP68

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Smart PV Safety Box



Simple & Easy

- Communicates with optimizers through DC power line
- Supports module-level real time monitoring & management

Safe & Reliable

- Module-level shutdown capability to secure people and assets safety
- IP65, supports outdoor application

Technical Specification	SmartPSB2000L
DC Input	
Maximum input voltage	600 V
Number of inputs	2
Maximum input current per input	15 A
DC Output	
Maximum output voltage	600 V
Number of outputs	2
Maximum output current per output	15 A
Features	
Module-level remote management	Yes
Onsite master module shutdown	Yes
General Specification	
Dimension (H * W * D)	149 * 149 * 49 mm (5.9 * 5.9 * 1.9 inch)
Weight	0.8 kg (1.8 lb)
Display	LED Indicator
Communication	PLC, RS485
Input type	Amphenol HH4
Protection class (according to IEC 61140 61140)	II
Operating temperature range	-30 ~ 55 °C
Degree of protection (according to IEC 60529)	IP65

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