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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**DONGGUAN SUNWORTH NEW ENERGY TECH  
CO.,LTD  
SW010-025P  
SW020P**

Also available on the web at  
[EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw020p](http://EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw020p)



## Company

Sunworth solar, we commit ourselves to R&D, manufacture and technical innovation on PV modules and solar power system. To provide high quality products with various specifications for customers is always our pursuit.

## Characteristics

- Use high quality solar cells to advanced encapsulation
- Adopt high transparent low-iron tempered glass, high quality anti-UV EVA and back sheet.
- With multi-ply performance testing for each module, to ensure the product quality and output performance.
- Using anodization aluminum frame with anticorrosion, to ensure solar module working under extremely and badly outdoors environment

## Warranty

- 20 years power output warranty, 90% power output for 5years, and 80% power output for 20years.
- 3 years workmanship warranty.

## Quality and safety

- ISO9001:2008 certified supplier, we provide world first class solar products for clients.
- IEC 61215, IEC 61730, IEC, CQC, CGC, CE, approved.



## Electrical Characteristics

Model No.	SW010P	SW015P	SW020P	SW025P
Maximum Power (Pmax)	10W	15W	20W	25W
Max-power Voltage (Vmp)	18.1V	18.1V	18.1V	18.1V
Max-power Current (Imp)	0.55A	0.83A	1.10A	1.38A
Open-circuit Voltage (Voc)	21.8V	21.8V	21.8V	21.8V
Short-circuit Current (Isc)	0.60A	0.89A	1.20A	1.48A
Module Efficiency	11.3%	12.6%	13.1%	13.7%
Operating Temperature	-40°C~+85°C			
Maximum System Voltage	600Vdc			
Maximum Series Fuse Rating	10A			
Power tolerance	±3%			

\*STC condition: 1000 W/m<sup>2</sup>,1.5AM and 25°C cell temperature.



### Temperature characteristics

NOCT	46°C±2°C
Temperature Co-efficient of Pmax	-0.398%/°C
Temperature Co-efficient of Voc	-0.34%/°C
Temperature Co-efficient of Isc	0.0576%/°C

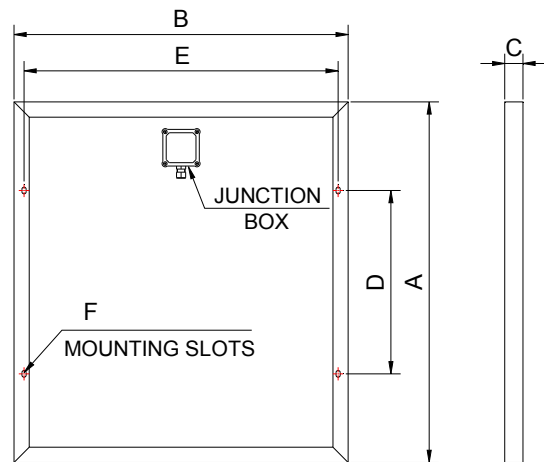
### Mechanical characteristics

Model No.	SW010P	SW015P	SW020P	SW025P
Cell Type	Polycrystalline silicon 156mm cutting			
Cell Arrangement	36(2*18)	36(2*18)	36(2*18)	36(2*18)
Dimensions	340*260*15mm	350*340*18mm	450*340*18mm	535*340*18mm
Weight	1.0Kg	1.3Kg	1.7Kg	2.0Kg
Front Cover	3.2mm tempered glass			
Frame Material	Anodized aluminium alloy			
Junction Box	IP65 rated			
Output Cables	Optional			
Connectors	Optional			

### Dimensions

Unit: mm

Model No.	SW010P	SW015P	SW020P	SW025P
<b>A</b>	340	350	450	535
<b>B</b>	260	340	340	340
<b>C</b>	15	18	18	18
<b>D</b>	100	150	180	250
<b>E</b>	319	316	316	316
<b>F</b>	4-ø5	4-ø6	4-ø6	4-ø6



### Packing

Model No.	SW010P	SW015P	SW020P	SW025P
Packing method	Carton & Pallet	Carton & Pallet	Carton & Pallet	Carton & Pallet
20'GP (Ref.)	10500	6300	5100	4200
40'GP (Ref.)	22400	13500	10800	9000

### SUNWORTH SOLAR ENERGY CO., LTD

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