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**Solar Panel Guide  
Specification Data Sheet**

**DONGGUAN SUNWORTH NEW ENERGY TECH  
CO.,LTD  
SW080-090P  
SW085P**

Also available on the web at  
[EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw085p](http://EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw085p)



## 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.	SW080P	SW085P	SW090P
Maximum Power (Pmax)	80W	85W	90W
Max-power Voltage (Vmp)	18.1V	18.1V	18.1V
Max-power Current (Imp)	4.42A	4.70A	4.97A
Open-circuit Voltage (Voc)	21.8V	21.8V	21.8V
Short-circuit Current (Isc)	4.81A	5.11A	5.41A
Module Efficiency	14.6%	14.6%	14.7%
Operating Temperature	-40℃~+85℃		
Maximum System Voltage	600Vdc		
Maximum Series Fuse Rating	10A		
Power tolerance	±3%		

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



## Temperature characteristics

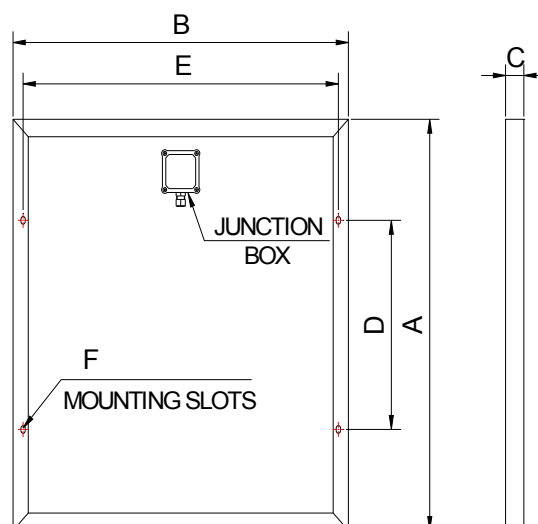
NOCT	46°C±2°C
Temperature Co-efficient of Pmax	-0.398%/°C
Temperature Co-efficient of Voc	-0.34%/°C
Temperature Co-efficient of Isc	0.0576%/°C

## Mechanical characteristics

Model No.	SW080P	SW085P	SW090P
Cell Type	Polycrystalline silicon 156mm cutting		
Cell Arrangement	36(4*9)	36(4*9)	36(4*9)
Dimensions	830*660*25mm	880*660*25mm	930*660*25mm
Weight	6.0Kg	6.3Kg	6.7Kg
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.	SW080P	SW085P	SW090P
<b>A</b>	830	880	930
<b>B</b>	660	660	660
<b>C</b>	25	25	25
<b>D</b>	450	500	550
<b>E</b>	627	627	627
<b>F</b>	4-ø7*11	4-ø7*11	4-ø7*11



## Packing

Model No.	SW080P	SW085P	SW090P
Packing method	Carton & Pallet	Carton & Pallet	Carton & Pallet
20'GP (Ref.)	1224	1225	1156
40'GP (Ref.)	2652	2652	2448

## SUNWORTH SOLAR ENERGY CO., LTD

TEL: +86-769-2332 0882

Website: [www.sun-worth.com](http://www.sun-worth.com)

E-mail: [sales@sun-worth.com](mailto:sales@sun-worth.com)