

### 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.	SW200P	SW205P	SW210P
Maximum Power (Pmax)	200W	205W	210W
Max-power Voltage (Vmp)	36.3V	36.3V	36.4V
Max-power Current (Imp)	5.51A	5.65A	5.77A
Open-circuit Voltage (Voc)	42.8V	42.8V	42.9V
Short-circuit Current (Isc)	6.02A	6.17A	6.30A
Module Efficiency	15.2%	14.9%	14.9%
Operating Temperature	-40°C~+85°C		
Maximum System Voltage	1000Vdc		
Maximum Series Fuse Rating	15A		
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

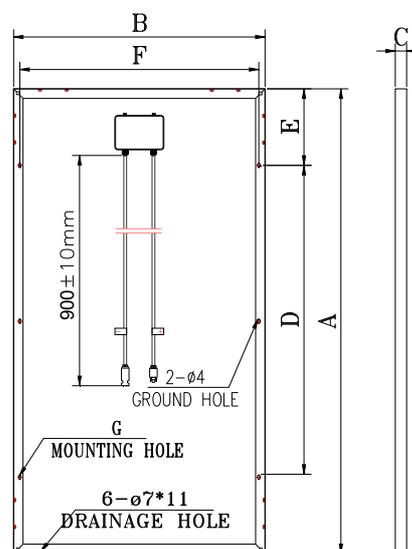
## Mechanical characteristics

Model No.	SW200P	SW205P	SW210P
Cell Type	Polycrystalline silicon 156mm cutting		
Cell Arrangement	72(6*12)	72(6*12)	72(6*12)
Dimensions	1330*990*35mm	1390*990*35mm	1420*990*35mm
Weight	14.7Kg	15.4Kg	15.7Kg
Front Cover	3.2mm tempered glass		
Frame Material	Anodized aluminium alloy		
Junction Box	IP65 rated		
Output Cables	4mm <sup>2</sup> , Length 900mm		
Connectors	MC4 comparable		

## Dimensions

Unit: mm

Model No.	SW200P	SW205P	SW210P
<b>A</b>	1330	1390	1420
<b>B</b>	990	990	990
<b>C</b>	35	35	35
<b>D</b>	930	990	1020
<b>E</b>	200	200	200
<b>F</b>	952	952	952
<b>G</b>	4-ø9*14	4-ø9*14	4-ø9*14



## Packing

Model No.	SW200P	SW205P	SW210P
Packing method	Carton & Pallet	Carton & Pallet	Carton & Pallet
20'GP (Ref.)	464	406	406
40'GP (Ref.)	928	928	928

## SUNWORTH SOLAR ENERGY CO., LTD

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