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# **EnergyPal**

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

**DONGGUAN SUNWORTH NEW ENERGY TECH  
CO.,LTD  
SW200-210P  
SW200P**

Also available on the web at  
[EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw200p](http://EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw200p)



## 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 |

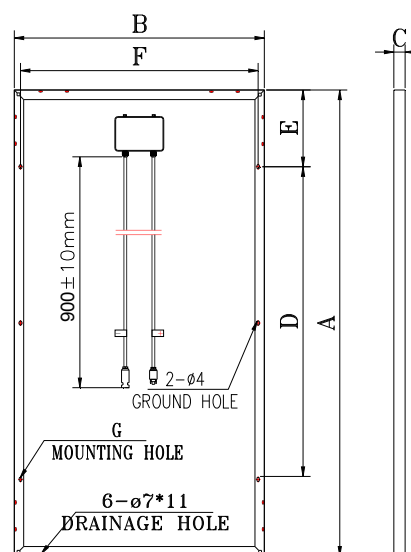
## Mechanical characteristics

| 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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