



## 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.                   | SW030P    | SW035P | SW040P | SW045P |
|-----------------------------|-----------|--------|--------|--------|
| Maximum Power (Pmax)        | 30W       | 35W    | 40W    | 45W    |
| Max-power Voltage (Vmp)     | 18.1V     | 18.1V  | 18.1V  | 18.1V  |
| Max-power Current (Imp)     | 1.66A     | 1.93A  | 2.21A  | 2.49A  |
| Open-circuit Voltage (Voc)  | 21.8V     | 21.8V  | 21.8V  | 21.8V  |
| Short-circuit Current (Isc) | 1.77A     | 2.10A  | 2.39A  | 2.69A  |
| Module Efficiency           | 14.0%     | 13.7%  | 13.6%  | 13.8%  |
| 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 |

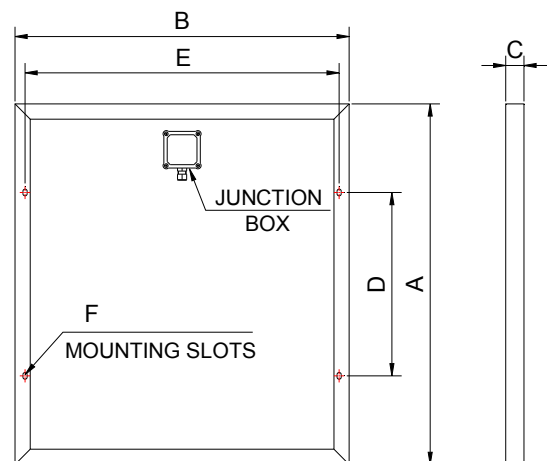
## Mechanical characteristics

| Model No.        | SW030P                                | SW035P       | SW040P       | SW045P       |
|------------------|---------------------------------------|--------------|--------------|--------------|
| Cell Type        | Polycrystalline silicon 156mm cutting |              |              |              |
| Cell Arrangement | 36(2*18)                              | 36(2*18)     | 36(4*9)      | 36(4*9)      |
| Dimensions       | 630*340*18mm                          | 750*340*20mm | 660*445*20mm | 660*495*20mm |
| Weight           | 2.4Kg                                 | 2.8Kg        | 3.1Kg        | 3.3Kg        |
| 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. | SW030P | SW035P | SW040P | SW045P |
|-----------|--------|--------|--------|--------|
| <b>A</b>  | 630    | 750    | 445    | 495    |
| <b>B</b>  | 340    | 340    | 660    | 660    |
| <b>C</b>  | 18     | 20     | 20     | 20     |
| <b>D</b>  | 350    | 400    | 180    | 200    |
| <b>E</b>  | 316    | 314    | 634    | 634    |
| <b>F</b>  | 4-ø6   | 4-ø6*9 | 4-ø6*9 | 4-ø6*9 |



## Packing

| Model No.      | SW030P          | SW035P          | SW040P          | SW045P          |
|----------------|-----------------|-----------------|-----------------|-----------------|
| Packing method | Carton & Pallet | Carton & Pallet | Carton & Pallet | Carton & Pallet |
| 20'GP (Ref.)   | 3600            | 2800            | 2652            | 2340            |
| 40'GP (Ref.)   | 7500            | 6000            | 5616            | 4992            |

## SUNWORTH SOLAR ENERGY CO., LTD

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