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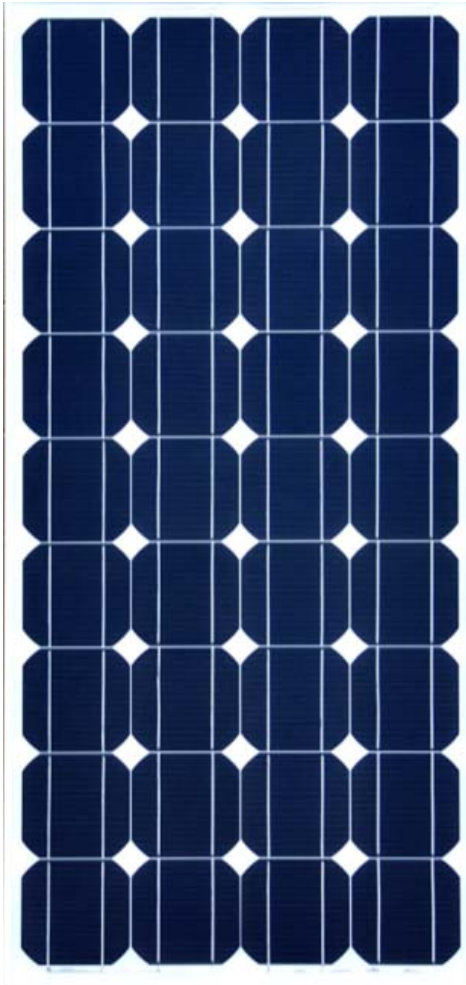
**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

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

**DONGGUAN SUNWORTH NEW ENERGY TECH  
CO.,LTD  
SW155-170M  
SW160M**

Also available on the web at  
[EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw160m](http://EnergyPal.com/dongguan-sunworth-new-energy-tech-co-ltd-solar-panels/sw160m)



### 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

- High efficiency solar cell to keep the modules efficiency reach to 17.28%.
- Positive tolerance to ensure higher output.
- Excellent performance under weak light conditions.
- Modules withstand extremely (temperature, load and impact) TUV certification.
- All modules combination and packing through stepping current to keep effectively reduce mismatch loss within.
- 100% EL test to keep higher quality.

### Warranty

- 25 years power output warranty, 90% power output for 10years, and 80% power output for 25years.
- 5 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.



Anodized aluminum frame withstand corrosion and damage, Special osculum can reduce destruction by water freeze.



IP65 junction box long-term weather endurance.



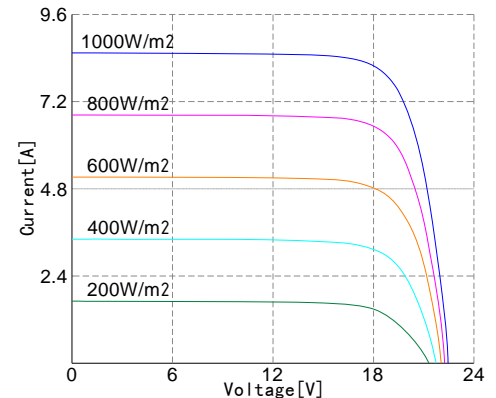


## Electrical Characteristics

| Model No.                   | SW155M      | SW160M | SW165M | SW170M |
|-----------------------------|-------------|--------|--------|--------|
| Maximum Power (Pmax)        | 155W        | 160W   | 165W   | 170W   |
| Max-power Voltage (Vmp)     | 18.7V       | 18.9V  | 19.1V  | 19.2V  |
| Max-power Current (Imp)     | 8.29A       | 8.47A  | 8.64A  | 8.86A  |
| Open-circuit Voltage (Voc)  | 22.9V       | 23.1V  | 23.3V  | 23.5V  |
| Short-circuit Current (Isc) | 8.64A       | 8.98A  | 9.18A  | 9.41A  |
| Module Efficiency           | 15.75%      | 16.26% | 16.77% | 17.28% |
| Operating Temperature       | -40°C~+85°C |        |        |        |
| Maximum System Voltage      | 1000Vdc     |        |        |        |
| Maximum Series Fuse Rating  | 15A         |        |        |        |
| Power tolerance             | 0~+5W       |        |        |        |

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

## I-V Curve



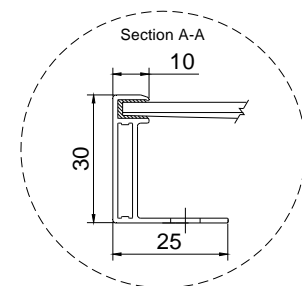
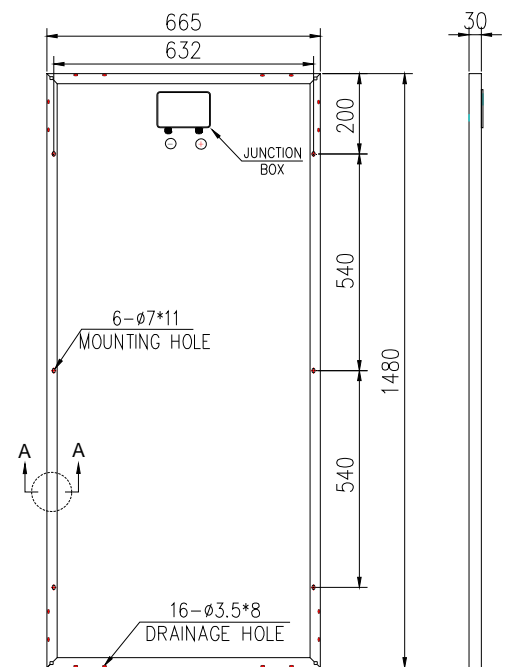
## Temperature characteristics

|                                  |           |
|----------------------------------|-----------|
| NOCT                             | 46°C±2°C  |
| Temperature Co-efficient of Pmax | -0.43%/°C |
| Temperature Co-efficient of Voc  | -0.35%/°C |
| Temperature Co-efficient of Isc  | 0.05%/°C  |

## Mechanical characteristics

|                  |                                   |
|------------------|-----------------------------------|
| Model No.        | SW155M/160M/165M/170M             |
| Cell Type        | Monocrystalline silicon 156*156mm |
| Cell Arrangement | 36(4*9)                           |
| Dimensions       | 1480*665*30mm                     |
| Weight           | 11.1Kg                            |
| Front Cover      | 3.2mm tempered glass              |
| Frame Material   | Anodized aluminium alloy          |
| Junction Box     | IP65 rated                        |
| Output Cables    | Optional                          |
| Connectors       | Optional                          |

## Dimensions



## Packing

| Packing           | 20'GP | 40'GP |
|-------------------|-------|-------|
| Pieces per Carton | 2     | 2     |
| Carton/Pallet     | 28    | 28    |
| Pallet/Container  | 10    | 22    |
| Pieces/container  | 560   | 1232  |

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