

**Mono Power: 415W**  
**Dimensions: 1725\*1135\*35mm**



### Characteristics

- High efficiency solar cell to keep the modules efficiency reach to 21.25%.
- 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.
- 100% EL test to keep higher quality.



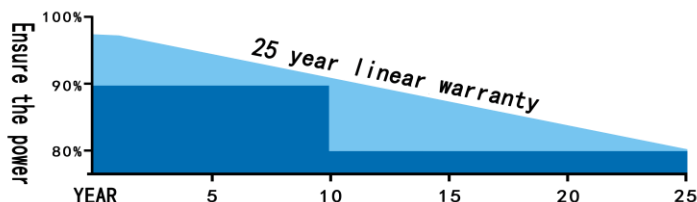
Anodized aluminum frame withstand corrosion and damage, Special osculum can reduce destruction by water freeze.



IP68 junction box long-term weather endurance.

### Warranty

- 25 years Linear Product Workmanship Warranty.
- 10 years workmanship warranty.



### Quality and safety

- ISO9001:2015、ISO14001:2015、ISO45001:2018 certified supplier, we provide world first class solar products for clients.
- TUV,IEC,CEC,CE,CB approved.



## Electrical Characteristics

|                             |           |
|-----------------------------|-----------|
| Model No.                   | SG-415WM  |
| Maximum Power (Pmax)        | 415W      |
| Max-power Voltage (Vmp)     | 31.61V    |
| Max-power Current (Imp)     | 13.13A    |
| Open-circuit Voltage (Voc)  | 38.82V    |
| Short-circuit Current (Isc) | 13.79A    |
| Module Efficiency           | 21.25%    |
| Operating Temperature       | -40℃~+85℃ |
| Maximum System Voltage      | 1500Vdc   |
| Maximum Series Fuse Rating  | 20A       |
| Power Tolerance             | ±3%       |

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

## Temperature Characteristics

|                                  |           |
|----------------------------------|-----------|
| NMOT                             | 46℃±2℃    |
| Temperature Co-efficient of Pmax | -0.398%/℃ |
| Temperature Co-efficient of Voc  | -0.340%/℃ |
| Temperature Co-efficient of Isc  | 0.0576%/℃ |

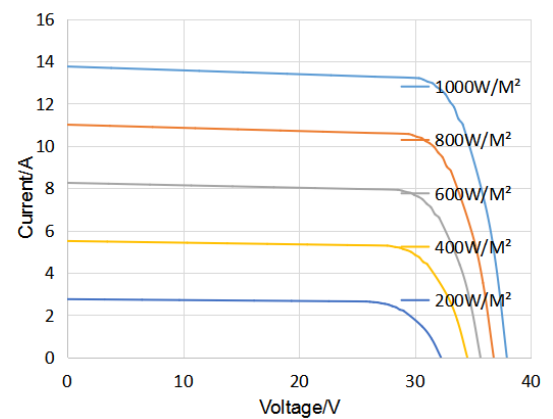
## Mechanical Characteristics

|                  |  |
|------------------|--|
| Mono Power       | 415W   |
| Cell Type        | Mono 182*91mm                                  |
| Cell Arrangement | 108(6*18)                                      |
| Dimensions       | 1725*1135*35mm                                 |
| Weight           | 20.45kg  |
| Front Cover      | 3.2mm tempered glass                           |
| Frame Material   | Anodized aluminium alloy                       |
| Junction Box     | IP68 rated                                     |
| Output Cables    | 4mm <sup>2</sup> ,Length: (+) 300mm/ (-) 300mm |

## Packing

|                  |      |
|------------------|------|
| Packing          | 40HC |
| Pieces/Pallet    | 30   |
| Pieces/container | 780  |

## I-V Curve



## Dimensions

