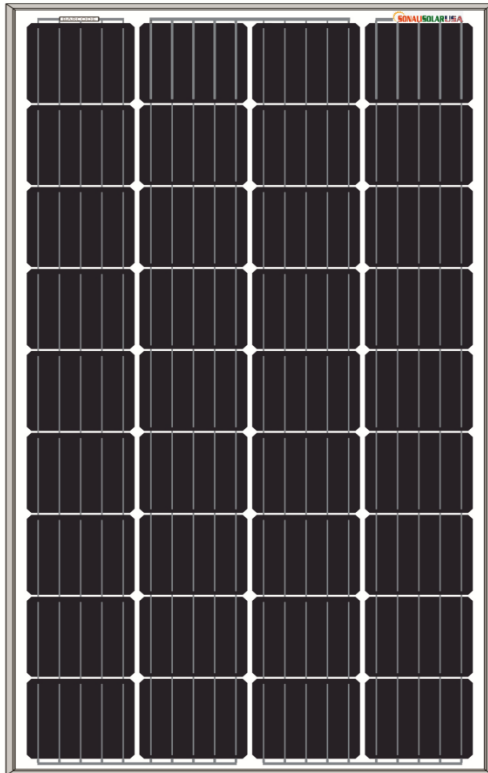




## 200W SOLAR KIT



### Quality Product

All Manufactured modules are tested 100% by EL (Electroluminescence) during the Production Process & Free from micro cracks.

Our high-performance modules are highly efficient, reliable and provide optimal output.

The company manufactures solar modules in compliance with global standard including IEC 61215, 61730-1, 61730-2, 61701, UL 1703, UL 61730.

### High Efficiency .

High Module efficiency is obtaining top performance even in diffused light conditions. We are leaders in providing our customers with maximum sunlight conversion.

### Our Team

We have a team of qualified experts and engineers making sure that modules produce maximum power. We pride ourselves in caring for each individual customer needs with detailed attention. Our end goal is to give a highly efficient product with exceptional customer service.

### Warranty

Our product is durable and has 12 years performance warranty. Integrated manufacturing of cells & modules in production line guarantees optimum performance.



### Application Possibilities:-

Residential and Commercial rooftops:-



Solar Farming:-



Car ports:-



Balconies:-



Fences:-



Awning & Canopies:-



Street lights:-



Solar Mobile Van:-



Solar Boat:-



Solar Kit:-



### US OFFICE:

Sungen Power  
111 Charlotte Place Suite 101A  
Englewood Cliffs, NJ 07632  
Office Tel: 201-568-1424  
info@sonalisolar.com





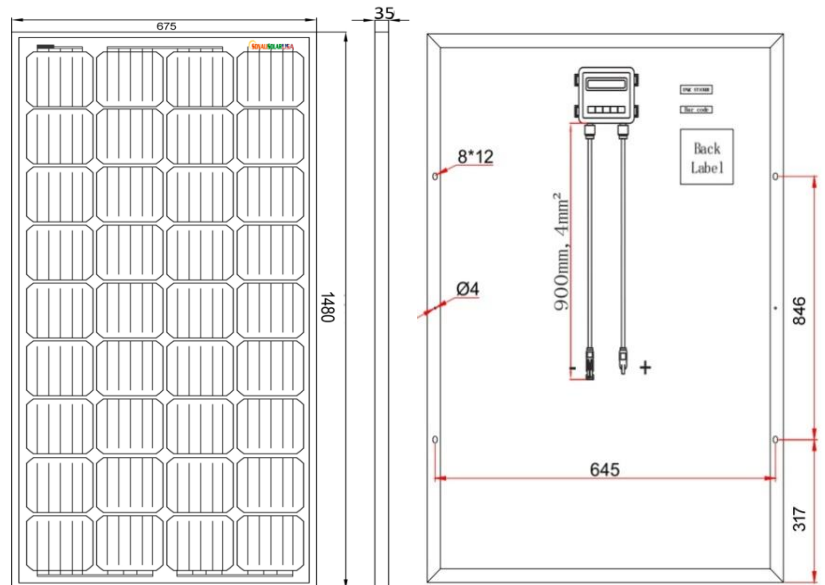
## 200W SOLAR KIT

### Electric Performance Parameter

|                                    |               |
|------------------------------------|---------------|
| Model                              | SS-M-200      |
| Nominal Maximum Power (Pmax/W)     | 200           |
| Optimum Operating Voltage (Vmp/V)  | 23.56         |
| Optimum Operating Current (Imp/A)  | 8.49          |
| Open Circuit Voltage (Voc/V)       | 27.76         |
| Short Circuit Current (Isc/A)      | 9.0           |
| Module Efficiency (%)              | 18.7%         |
| Operating Temperature              | -40°C to 85°C |
| Maximum System Voltage             | 1000V DC      |
| Fusing Current                     | 15 A          |
| Power Tolerance                    | 0~+5W         |
| Temperature coefficients of Pmax   | -0.41%/°C     |
| Temperature coefficients of Voc    | -0.32%/°C     |
| Temperature coefficients of Isc    | 0.04%/°C      |
| Nominal operating cell temperature | 46±2°C (NOCT) |

STC: irradiance of 1000W/m<sup>2</sup>; Module temperature of 25 °C; AM=1.5

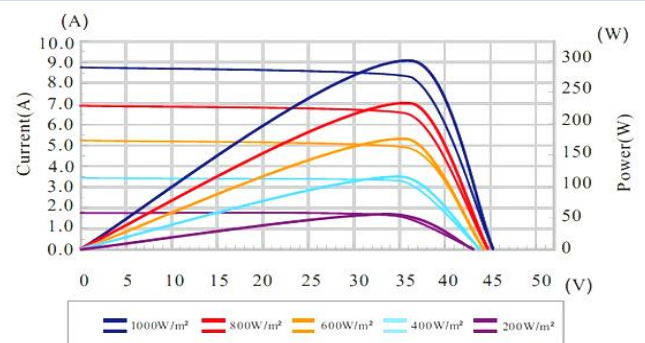
### Technical Drawing



### Mechanical Parameter

|                              |   |
|------------------------------|---|
| Module Dimensions            | 1480x675x35mm/58.27x26.57x1.37in                      |
| Weight                       | 14.5 Kg / 32.0 lbs                                    |
| Cell Type (Mono-crystalline) | 156.75x156.75 mm                                      |
| No Of Cell                   | 36 (4 X 9)  |
| Front Glass                  | 3.2mm Tempered & Low Iron                             |
| Frame                        | Anodized Aluminum Alloy                               |
| Junction Box                 | IP 67 Rated   |
| Output JB Cable              | UL 12AWG/TUV 1x4.0 mm <sup>2</sup> ,<br>Length:900 mm |
| Connectors                   | Mc4 compatible  |

### IV Curve



### Extra Cable - Connector

\* 12 Ft 10AWG Tray Cable with one end MC4+

\* 12 Ft 10AWG Tray Cable with one end MC4-

\* 12 Ft 10AWG Tray Cable with one end Ring Terminal

\* 12 Ft 10AWG Tray Cable with one end Ring Terminal

Marine batteries typically have two posts, a 3/8"-16 threaded post for the positive terminal, and a 5/16"-18 threaded post for the negative terminal. It is 10 AWG.

\* Waterproof Solar Cable Entry Gland + MC4 Connector

### Mounting Bracket

With Clamps and Nylok screws No. 10 SS x 20mm

### Material & Workmanship Warranty

|  |          |
|--|----------|
| For Solar Module   | 12 years |
| For Battery  | 3 years  |
| For Charge Controller  | 1 Year   |
| For Cable & Connector, Fuses, Mounts & Brackets, etc Accessories | 1 Year   |

### Charge Controller (PWM)

|                           |                |
|---------------------------|----------------|
| Battery Voltage           | 12 V/24 V Auto |
| Charge /Discharge Current | 30 Amp         |
| Float Charge              | 13.7 V         |
| Discharge Stop            | 10.7 V         |
| Discharge Reconnect       | 12.6 V         |

