



**“ENERGY INSPIRED BY NATURE” SS 250-270 (24V) SERIES**



**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 MNRE, IEC 61215, 61730-1, 61730-2, 61701, UL 1703, ISO 9001:2008 & ISO 14001:2004 & 18001:2007, MCS.

**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.

**Application Possibilities**

Residential and Commercial rooftops, Car ports, Solar Farming, Balconies, Awnings, Street lights, Fences, and Canopies.

**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.

**Guarantee**

Our product is durable and has 25 years performance warranty. Integrated manufacturing of cells & modules in production line guarantees optimum performance.

**RFID**

RFID is an Radio Frequency Identification Technology - enables every individual modules to be uniquely identified. We can provide RFID tag as per customer's request.

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### Electrical Specifications

|                                 |         |         |         |         |         |
|---------------------------------|---------|---------|---------|---------|---------|
| Nominal Maximum Power (Pmax)    | 250 W   | 255 W   | 260 W   | 265 W   | 270 W   |
| Optimum Operating Voltage (Vmp) | 30.72 V | 31.06 V | 31.14 V | 31.37 V | 31.60 V |
| Optimum Operating Current (Imp) | 8.14 A  | 8.21 A  | 8.35 A  | 8.45 A  | 8.55 A  |
| Open Circuit Voltage (Voc)      | 37.65 V | 37.76 V | 37.83 V | 38.15 V | 38.30 V |
| Short Circuit Current (Isc)     | 8.64 A  | 8.71 A  | 8.76 A  | 8.95A   | 9.07A   |
| Module Efficiency (%)           | 15.54%  | 15.85%  | 16.16%  | 16.47%  | 16.78%  |

\* Maximum System Voltage : 1000 V (IEC), 600 V (UL)

\* Measurement Power Tolerance on Power : 0 ~ +5W

\* Under Standard Test Conditions (STC) of irradiance of 1000W/m2, spectrum AM 1.5 and cell temperature of 25 °C

\* Nominal Operating Cell Temperature (NOCT) of irradiance of 800W/m2, spectrum AM 1.5 and ambient temperature of 20 °C, 47 ± 2° C

### Mechanical Specifications

|                          |   |
|--------------------------|---|
| <b>Module Dimensions</b> | <b>(1640 X 981 X 40 mm) / (64.57 X 38.62 X 1.57 inch)</b>                                     |
| Weight                   | 19kgs / 41.89lbs  |
| Junction Box             | Protection Class IP65 with Bypass diodes  |
| Cable & Connectors       | Solar Cable 1200mm length with 4.0mm <sup>2</sup> Double Insulated Cable & Type MC4 Connector |
| Cell Arrangement         | 60 (10 X 6)   |
| Front Cover              | 3.2mm Tempered Glass (ARC)  |
| Encapsulate              | EVA   |
| Back Cover               | Composure Sheet   |
| Frame                    | Silver Matt Finished Anodized Frame   |

### Temperature Coefficients

|                                     |              |
|-------------------------------------|--------------|
| Coefficient of Current ( $\alpha$ ) | (0.060%/°C)  |
| Coefficient of Voltage ( $\beta$ )  | (-0.331%/°C) |
| Coefficient of Power ( $\lambda$ )  | (-0.439%/°C) |

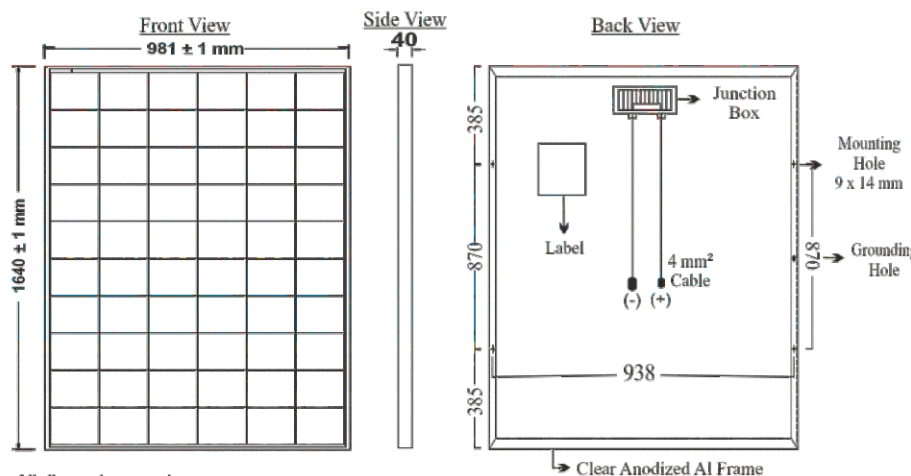
### Product Guarantees

|                          |   |
|--------------------------|---|
| Product Warranty         | 10 Years  |
| Performance Warranty     | First 10 Years up to 90%, next 15 years up to 80%           |
| Approvals & Certificates | IEC 61215, 61730-1, 61730-2 & 61701, UL 1703, MNRE Approved |

### Tested Operating Conditions

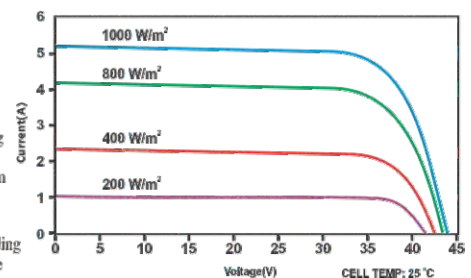
|                            |                 |
|----------------------------|-----------------|
| Temperature Cycling Range  | (-40°C ~ +85°C) |
| Humidity Freeze, Damp Heat | 85 % RH         |

### Module Dimensions



All dimensions are in mm

### Various Irradiance Levels



### Linear Performance Warranty

