



# Webel SOLAR



- Ideal module design ensures optimum performance even in diffused light conditions
- 15 years warranty\* on electrical performance
- Calibration modules for output measurement regularly tested at Fraunhofer ISE
- Integrated manufacturing of cells and modules in one production line guarantees optimum performance
- ISO 9001:2000 certification ensures consistent product quality
- Modules are approved for IEC/EN 61215 and IEC/EN 61730 from various reputed institutes like EURO TEST & CSA INTERNATIONAL
- $\pm 5\%$  output tolerance\*\*

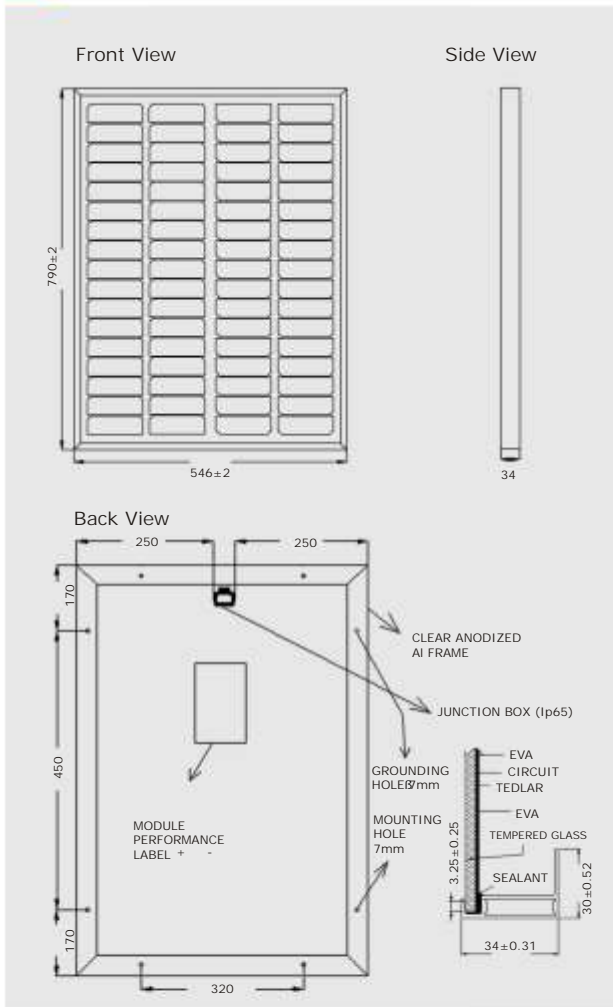
## W50 Series

### Electrical Specification (Standard Test Conditions: 1000 W/m<sup>2</sup>, 25°C, AM 1.5)

|                          |                         |      |
|--------------------------|-------------------------|------|
| Maximum Power            | Pmax (Wp)               | 50   |
| Short Circuit Current    | Isc(Amp)                | 3.4  |
| Open Circuit Voltage     | Voc(Volt)               | 20.5 |
| Current at Maximum Power | I <sub>max</sub> (Amp)  | 3.0  |
| Voltage at Maximum Power | V <sub>max</sub> (Volt) | 16.7 |
| Maximum System Voltage   | 600 Volt                |      |
| Tolerance**              | +/-5%                   |      |

\*\*  $\pm 3\%$  tolerance on maximum power also available on request.

## Drawing (Dimensions in mm)



## Mechanical Specification

W50

|                                   |  |
|-----------------------------------|--|
| Height x Width x Depth(H x W x D) | (790 x 546 x 34)mm   |
| Weight                            | 5.8 Kg   |
| Junction box                      | IP 65 rated Junction box with 2 bypass diode                                   |
| Front glass                       | low iron content, toughened & tempered<br>High transmission with 3mm thickness |
| Solar cells                       | (125mm x 125mm) <sup>1/3</sup> , cut 68 cells connected in series              |
| Cell encapsulation                | EVA (ethylene vinyl acetate)   |
| Back side                         | Tedlar Composite film(TPT) ,white colour                                       |
| Frame                             | Anodized aluminium frame with twin wall profile                                |

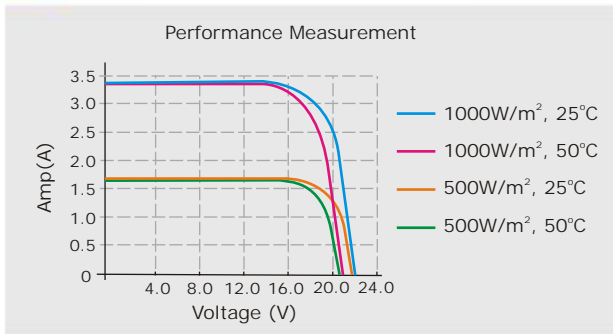
## Temperature Coefficients

|                        |          |             |
|------------------------|----------|-------------|
| Coefficient of Current | $\alpha$ | 0.05% / °C  |
| Coefficient of Voltage | $\beta$  | -0.34% / °C |
| Coefficient of Power   | $\gamma$ | -0.45% / °C |

## Permissible Operating Conditions

|                        |                     |
|------------------------|---------------------|
| Temperature Range      | (-40 °C To + 85 °C) |
| Maximum System Voltage | 600V                |

## IV - Curve



## Guarantees

|                          |  |
|--------------------------|--|
| Product Warranty         | 2 years  |
| *Performance Warranty    | Guaranteed Output of 90% for 10 years and 80% for 15 years |
| Approvals & Certificates | UI1703, CSA, CE, IEC61215, IEC61730                        |

## Certifications



## WEBEL WEBSOL ENERGY SYSTEMS LIMITED



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