

325 W_p SPV MODULE

Electrical Characteristics*

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|--|-----------|
| Nominal Maximum Power (P _m) in Watts | 325 |
| Power tolerance | 0 / + 5 W |
| Open Circuit Voltage (V _{oc}) in Volts | 45.35 |
| Short Circuit Current (I _{sc}) in Amps | 9.55 |
| Voltage at Maximum Power (V _{mp}) in Volts | 36.85 |
| Current at Maximum Power (I _{mp}) in Amps | 8.82 |
| Maximum System Voltage in Volts | 1000 |
| Module Efficiency (%) | 16.75 |
| Maximum Series Fuse Rating (A) | 15 |

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

Mechanical Characteristics

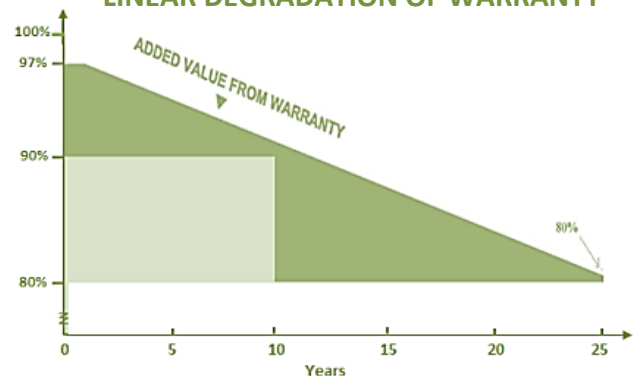
| | |
|---|--|
| Length x Width x Thickness (L x W x T) - mm | 1960 x 990 x 40 |
| Mounting Holes Pitch (Y) – mm | 1060 |
| Mounting Holes Pitch (X) – mm | 942 |
| Weight (kg) | 22.50 |
| Solar Cells per Module (Units) / Arrangement | 72 / (12*6) |
| Solar Cell Type | Multi crystalline Silicon |
| Front Cover (Material / Thickness) | Tempered & Low Iron Glass / 3.2mm / 4mm |
| Encapsulate | Ethylene Vinyl Acetate |
| Frame Material | Anodized Aluminum Alloy |
| Junction Box (Material / Type) | Weatherproof PPO / IP65 /IP67 enclosure with bypass diodes |
| Connector (Protection degree / Type) | IP67 rated / MC4 compatible |
| Cable cross-section | 4 mm ² |

- Positive tolerance Modules
- Excellent generation performance with reasonable cost
- Undergoes rigorous quality control and in-house testing
- 100% Electroluminescence test to ensure error free Modules
- Heavy duty anodized Aluminum frames with pre-drilled holes for quick installation
- Salt mist corrosion resistance and Ammonia corrosion resistance
- Long lasting and high efficiency modules
- Withstands hail, snow and ice storms

Warranty

- 10 years Limited Product Warranty
- 25 years Limited Power output Warranty:
 - Minimum 90% at the end of 10 years
 - Minimum 80% at the end of 25 years

LINEAR DEGRADATION OF WARRANTY



Certifications



IEC 61215

IEC 61730-1 & 2

IEC 61701

IEC 62716

ISO 9001:2008

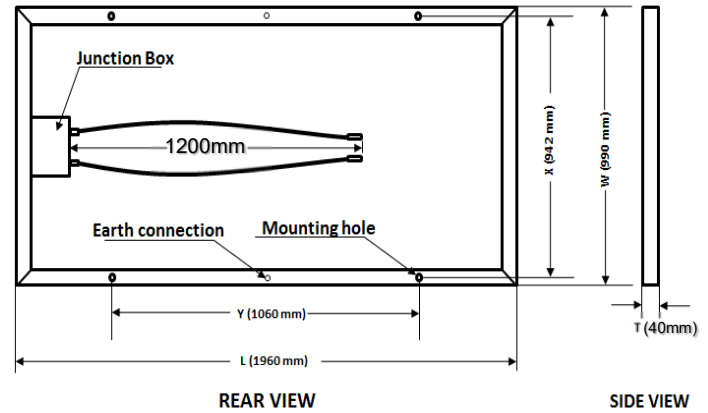
ISO 14001:2004

OHSAS 18001:2007

Design specifications

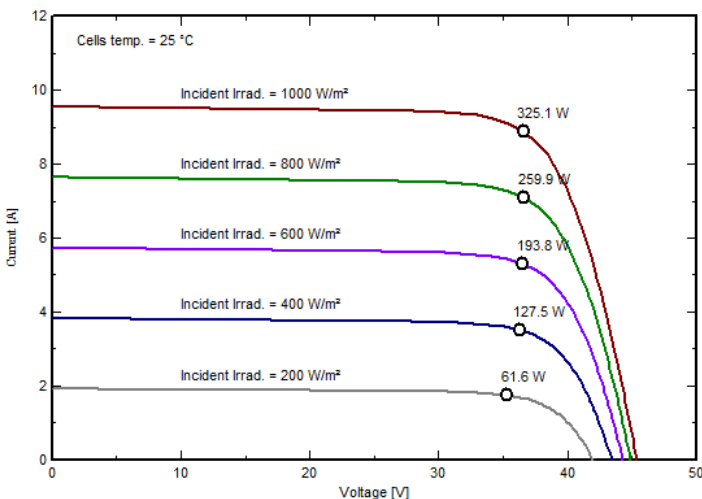
Thermal Characteristics

| | |
|---|-----------|
| Temperature coefficient of Current (I_{sc} , α (%/°C) | 0.0718 |
| Temperature coefficient of Voltage (V_{oc} , β (%/°C) | -0.3253 |
| Temperature coefficient of Power (P_m , γ (%/°C) | -0.4106 |
| NOCT (°C) | 46 ± 2 |
| Operating temperature range (°C) | -40 to 85 |



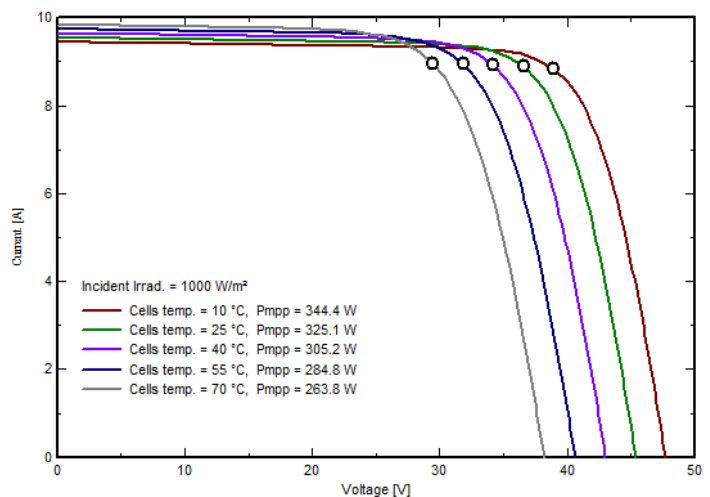
I-V Curve Variation with Irradiance

PV module: Waaree, WS-325



I-V Curve Variation with Temperature

PV module: Waaree, WS-325



About Waaree:

WAAREE is one of India's leading multi-technology companies, headquartered at Mumbai. Founded in 1989, WAAREE successfully developed cutting edge technologies to become one of the most preferred brands in the field of Instrumentation. The company has transformed itself from a single business into a multi-technology organization, diversifying into exciting areas of Solar Energy, Industrial Valves, Petroleum Equipment's and Process control Instrumentation. WAAREE has a presence in over 68 countries, serviced through its 20 sales offices in India & Dubai, and more than 105 global channel partners. WAAREE has a huge list of satisfied customers over the years. WAAREE is committed to supply the best quality products & technology to its customers. WAAREE's products are manufactured at its state-of-the-art manufacturing facilities and is committed to excel in providing the society with world class quality products.

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○ The specifications in this datasheet are subject to change without prior notice.