

# Transforming the power of sun



POLYCRYSTALLINE  
SOLAR PV MODULES

**72 CELLS**

**315-335W<sub>p</sub>** POWER OUTPUT RANGE

**HIGH EFFICIENCY**

**POSITIVE POWER TOLERANCE\***



### 5 Busbar Solar Cell

5 busbar cell design improves module efficiency and offers better power output



### Outstanding Durability

With its reinforced frame design, our modules can endure front load of up to 5400 Pa and rear load of up to 2400 Pa to withstand heavy wind & snow loads



### High Power Output

Our PV modules are compact in size and have been designed to deliver enhanced output and efficiency



### Better Performance in High Temperature

Our PV modules deliver efficient performance even in high temperature conditions due to its improved temperature coefficient



### Low Light performance

Advanced glass and cell surface texture design ensures excellent performance in low light environment



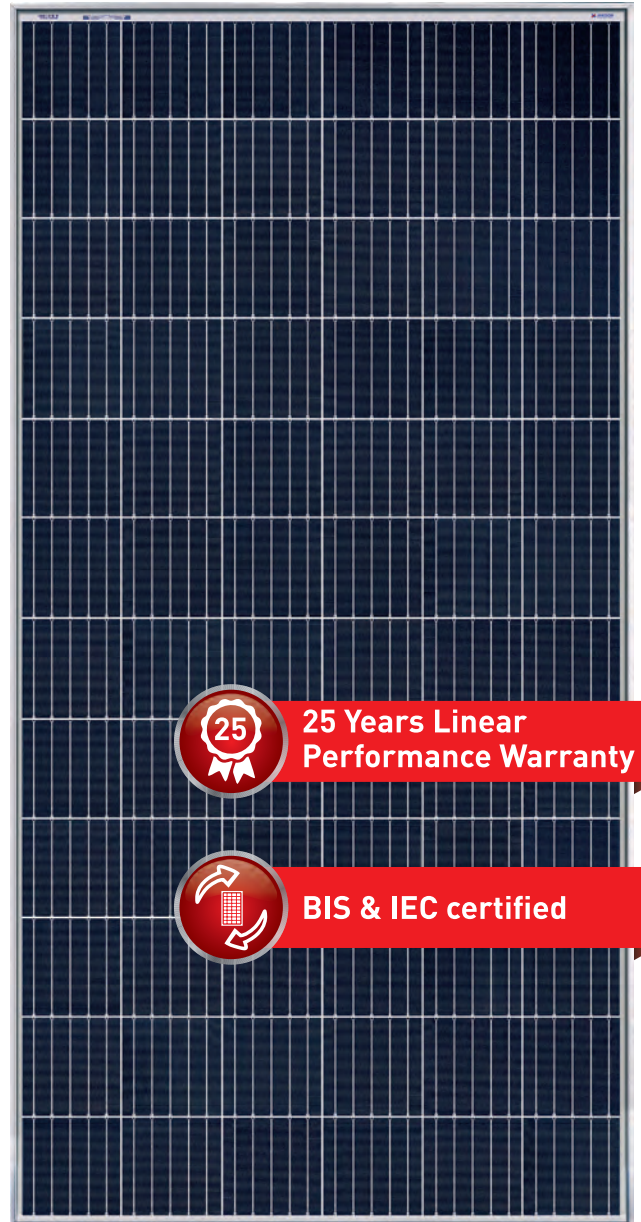
### Enhanced Performance

Our PV modules provide more than 80% power output even after 25 years of operation



### Global Certifications

IEC 61215, IEC 61730 (I & II), IEC 61853, IEC 62804, IEC 60068, IEC 61701, IEC 62716, BIS Certified - IS 14286



\*Positive Power Tolerance of 0 to 4.99W

## Technical Specifications

| Module Type  | JPH-24X315 |       | JPH-24X320 |       | JPH-24X325 |       | JPH-24X330 |       | JPH-24X335 |       |
|--|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|  | STC        | NOCT  | STC        | NOCT  | STC        | NOCT  | STC        | NOCT  | STC        | NOCT  |
| Peak Power Watts-P <sub>MAX</sub> (W <sub>p</sub> )* | 315        | 234   | 320        | 238   | 325        | 242   | 330        | 246   | 335        | 249   |
| Maximum Power Voltage-V <sub>MPP</sub> (V)*          | 37.02      | 33.95 | 37.08      | 34.05 | 37.23      | 34.22 | 37.25      | 34.28 | 37.70      | 34.58 |
| Maximum Power Current-I <sub>MPP</sub> (A)*          | 8.51       | 6.89  | 8.63       | 6.99  | 8.730      | 7.07  | 8.86       | 7.18  | 8.89       | 7.20  |
| Open Circuit Voltage V <sub>OC</sub> (V)*            | 45.60      | 42.37 | 45.80      | 42.55 | 45.90      | 42.65 | 45.94      | 42.68 | 46.10      | 42.83 |
| Short Circuit Current I <sub>SC</sub> (A)*           | 9.01       | 7.30  | 9.100      | 7.37  | 9.250      | 7.49  | 9.41       | 7.62  | 9.45       | 7.65  |
| Module Efficiency η <sub>m</sub> (%)*                | 16.23      |       | 16.49      |       | 16.75      |       | 17.01      |       | 17.26      |       |

\* Under Standard Test Conditions (STC) of 1000 W/m<sup>2</sup> irradiance, AM 1.5 spectrum and 25°C cell temperature.  
NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Mechanical Data

|                    |   |
|--------------------|---|
| Solar Cells        | Polycrystalline 156.75 x 156.75 mm                  |
| Cell Orientation   | 72 Cells (6x12)                                     |
| Module Dimensions  | 1960 x 990 x 35 mm                                  |
| Weight             | 22.5 kg   |
| Glass              | 3.2 mm, High Transmission, AR Coated Tempered Glass |
| Backsheet          | Composite film                                      |
| Cell Encapsulation | EVA-Ethylene Vinyl Acetate                          |
| Frame              | Anodized Aluminium Alloy (40mm also available)      |
| J-Box              | IP 67 with 3 bypass diodes                          |
| Cables             | Cable 4.0 mm <sup>2</sup> , 1200 mm                 |
| Connector          | MC4 Compatible                                      |
| Application Class  | Class-A (Safety Class-II)                           |

## Temperature Ratings

|   |             |
|---|-------------|
| Nominal Operating Cell Temperature (NOCT)   | 44°C (±2°C) |
| Temperature Coefficient of P <sub>MAX</sub> | -0.39%/°C   |
| Temperature Coefficient of V <sub>OC</sub>  | -0.29%/°C   |
| Temperature Coefficient of I <sub>SC</sub>  | 0.048%/°C   |

## Maximum Ratings

|                        |                                 |
|------------------------|---------------------------------|
| Operating Temperature  | -40 to +85°C                    |
| Maximum System Voltage | 1500V DC (IEC)<br>1500V DC (UL) |
| Max Series Fuse Rating | 15A                             |

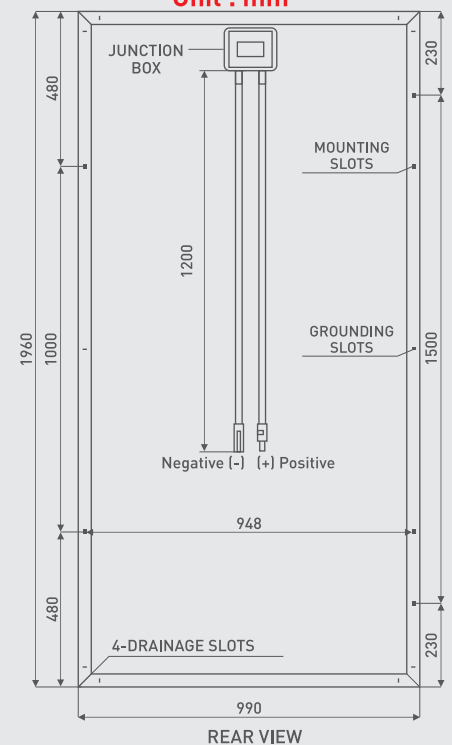
## Warranty

12 year Product Workmanship Warranty\*\*

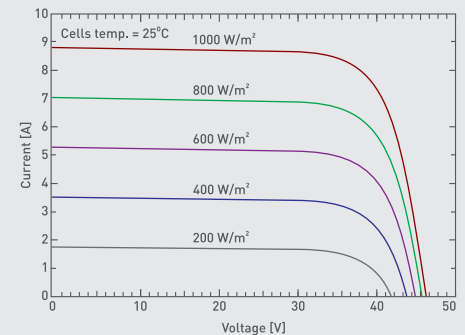
25 year Linear Performance Warranty

\*\* Applicable from January 1, 2021

## Dimension of PV Module Unit : mm



## I-V Curve with Irradiance



## Linear Performance Warranty

