



# Multi-crystalline Solar PV Modules

ASP-7-AAA (AAA=300-330) | 72 Cells | 300-330 Wp

## Highlights



More power/m<sup>2</sup> compared to industry average



Higher specific energy yield (kwh/kwp) due to superior cell + module engineering



Superior performance at NOCT and PCT conditions



Superior low light irradiation performance 200W/m<sup>2</sup>



Resistant to PID, salt mist and Ammonia



Triple EL checking to ensure defect free modules

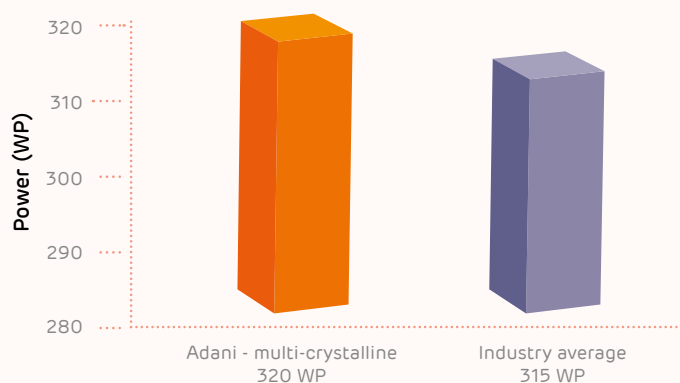
Reduces installation costs by 2%

Reduces transport costs by 2%

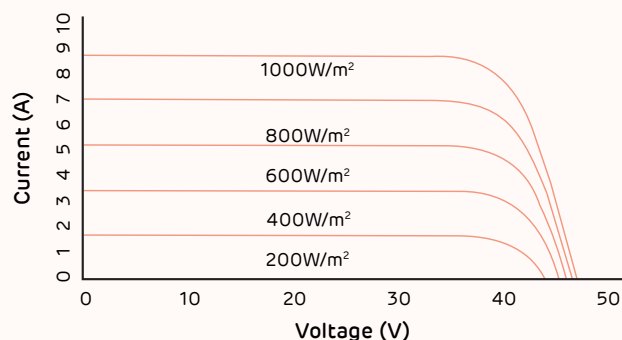
Reduces land costs by 2%

Reduces BOS costs by 2%

## Significant advantages of Adani multi-crystalline module



## Current-voltage curve

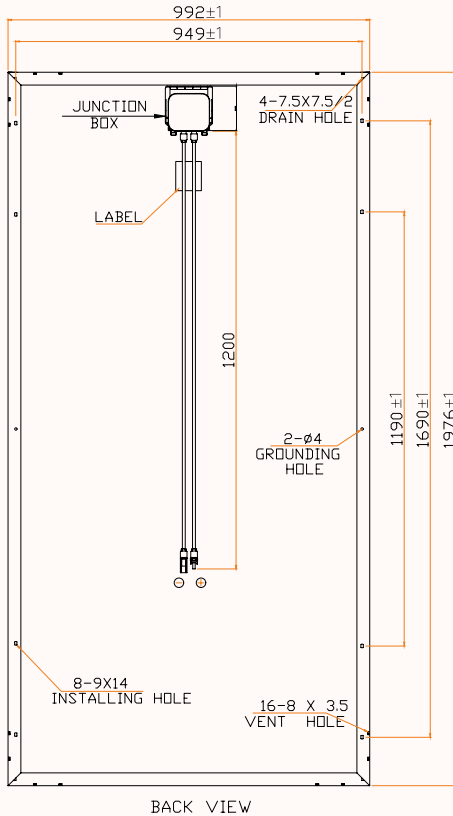


**Note:** Data is based on the comparison of the Adani -72 cells standard multi (320Wp) with industry's average of 315 Wp module for a scale of 1 MW installation and cost reduction will vary from site to site.

\* "Adani Solar" is the brand name for legal entity "Mundra Solar PV Ltd." having its registered office at "Adani House, Nr Mithakhali Six Roads, Navrangpura, Ahmedabad 380 009, Gujarat, India" and manufacturing unit at "Revenue Survey No: 180/P City: Kutch Taluka: Mundra, Village: Tunda, Post office: Bidada; Pin: 370535".

# Technical Data

## Dimensions in mm



## Electrical data – All data measured to STC \*

|  |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|
| Peak power, (0 ~+ 4.99 Wp)<br>Pmax(Wp) | 300   | 305   | 310   | 315   | 320   | 325   | 330   |
| Maximum voltage, Vmpp (V)              | 34.92 | 35.26 | 35.61 | 36.01 | 36.41 | 36.81 | 37.21 |
| Maximum current, Impp (A)              | 8.59  | 8.65  | 8.71  | 8.75  | 8.79  | 8.83  | 8.87  |
| Open circuit voltage, Voc (V)          | 44.83 | 44.94 | 44.98 | 45.1  | 45.5  | 45.69 | 45.87 |
| Short circuit current, Isc (A)         | 8.90  | 9.00  | 9.14  | 9.25  | 9.3   | 9.4   | 9.42  |
| Module efficiency (%)                  | 15.30 | 15.56 | 15.81 | 16.07 | 16.32 | 16.58 | 16.84 |

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, air mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m<sup>2</sup> according to EN 60904-1

## Electrical parameters at NOCT

|             |       |       |       |       |       |       |       |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| Pmax @ NOCT | 217.9 | 223.1 | 227.5 | 232.0 | 238.4 | 242.5 | 246.8 |
| Vmpp @ NOCT | 34.59 | 34.64 | 34.47 | 34.47 | 34.65 | 34.54 | 34.61 |
| Impp @ NOCT | 6.3   | 6.44  | 6.6   | 6.76  | 6.88  | 7.02  | 7.13  |
| Voc @ NOCT  | 41.8  | 42.1  | 42.3  | 42.5  | 42.7  | 42.9  | 43.1  |
| Isc @ NOCT  | 6.9   | 7.02  | 7.17  | 7.3   | 7.43  | 7.57  | 7.8   |

\*NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

## Temperature co-efficients (TC) and permissible operating conditions

|                                 |                   |
|---------------------------------|-------------------|
| TC of open circuit voltage (β)  | -0.31% /°C        |
| TC of short circuit current (α) | 0.069 % /°C       |
| TC of power (γ)                 | -0.42 % /°C       |
| Maximum system voltage          | 1000 V (IEC & UL) |
| NOCT                            | 45°C ± 2°C        |
| Temperature range               | -40°C to + 85°C   |

## Packing information

|                     |       |
|---------------------|-------|
| Container           | 40'HC |
| Pallets / Container | 22    |
| Pieces / Container  | 660   |

## Warranty and certifications

**Product warranty\*\***  
25 years linear power warranty

**Performance guarantee\*\***  
Power Degradation < - 2.5 % in first year  
< - 0.68 % / year in 2-25 years

**Approvals and certificates:** IEC 61215 Ed2, IEC 61730, IEC 61701, UL 1703, MCS, JET, CEC, CEC-Aus, IEC 62716



## Mechanical data

|                                      |  |
|--------------------------------------|--|
| Length                               | 1976 mm  |
| Width                                | 992 mm   |
| Height                               | 35 mm / 40 mm  |
| Weight                               | 22 Kg (35 mm) / 27 Kg (40mm)                                     |
| Junction box                         | IP67   |
| Cable and connectors                 | 1200 mm length cable, MC4 & Amphenol compatible connectors       |
| Application class                    | Class A (Safety class II)  |
| Superstrate                          | High transmittance ARC glass                                     |
| Cells                                | 72 multi-crystalline solar cells; 4 bus bars, 156.75 x 156.75 mm |
| Cell encapsulation                   | Superior dielectric strength & PID resistant EVA                 |
| Substrate                            | Tri layer backsheet  |
| Frame                                | Anodized aluminium frame with twin wall profile                  |
| Mechanical load test as per IEC & UL | 5400 Pa-front ; 2400 Pa-back                                     |
| Maximum series fuse rating           | 15 A   |

**Sold in India by:**

Loop Solar  
Call: +91-9971136369  
Email: info@loopsolar.com | Web: www.loopsolar.com

**\*Caution:**  
Please read safety and installation instructions before using the product.

**\*\* Warranty:**  
Please read Adani solar warranty documents thoroughly.