

ASP-7-AAA (AAA=310-325)

MULTI CRYSTALLINE SOLAR PV MODULES | 72 CELLS | 310-325 WATT



Ideal Module for large Utility scale installations

- Designed for IEC & UL DC 1000 V applications.



Higher generating module

- One of Industry **Lowest Temperature Coefficient PV Modules**
- Superior performance at **NOCT**
- Excellent low Light Intensity performance
- Positive power tolerance & a guaranteed output for 25 years.



Highly Reliable module with supreme quality control

- **Triple EL** Inspection stages.
- **PID Resistant**
- Resistance to **Salt Mist, Ammonia, Sand & Dust Abrasion.**



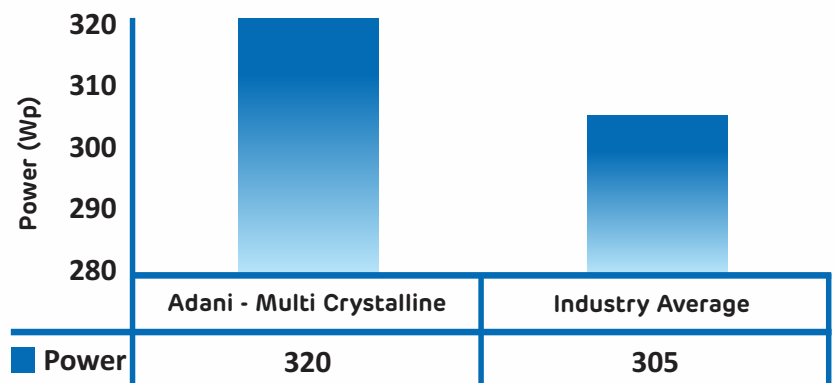
Certified to withstand challenging environmental conditions*

- IEC & UL Certified PV Modules
- Wind load (**2400 Pa**)
- Snow load per module (**5400 Pa**)
- 35 mm hail stones at 97 km/h

Rigorous Quality Control

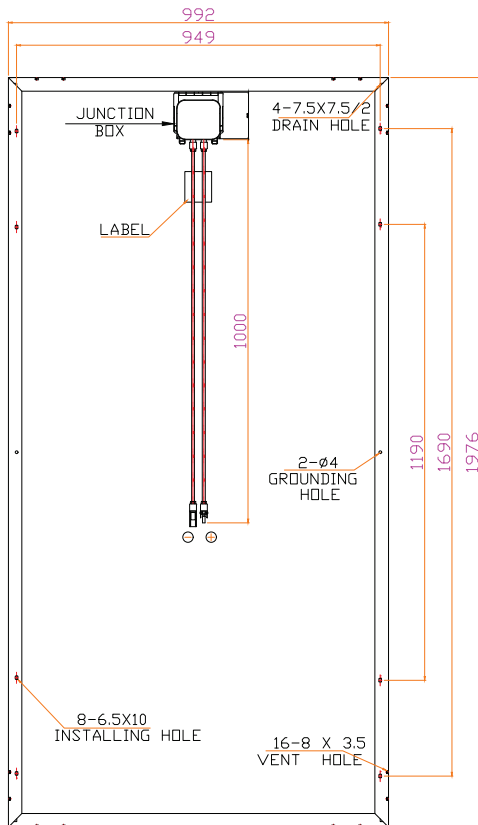
- Rigorous quality control meeting the highest international standards: ISO 9001: 2015, ISO 14001: 2015 and ISO17025: 2005

Average Power - 72 Cell MultiCrystalline Module



TECHNICAL DATA

Dimensions in mm



Electrical Data – All data refers to STC (AM 1.5, 1000 W/m², 25°C)

| Peak Power, (0 ~+ 4.99 Wp) Pmax(Wp) | 310 | 315 | 320 | 325 |
|-------------------------------------|-------|-------|-------|-------|
| Maximum Voltage, Vmpp (V) | 38.12 | 38.33 | 38.69 | 38.88 |
| Maximum Current, Impp (A) | 8.15 | 8.22 | 8.27 | 8.36 |
| Open Circuit Voltage, Voc (V) | 45.73 | 46.04 | 46.2 | 46.34 |
| Short Circuit Current, Isc (A) | 8.82 | 8.85 | 8.93 | 9.04 |
| Module Efficiency (%) | 15.82 | 16.07 | 16.32 | 16.58 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.

Electrical Parameters at NOCT

| | | | | |
|--------------------|-------|-------|-------|-------|
| Power(Wp) at NOCT | 228.4 | 233.9 | 238.4 | 242.3 |
| V@Pmax(V) at NOCT | 34.29 | 34.43 | 34.7 | 34.87 |
| I@Pmax (A) at NOCT | 6.66 | 6.82 | 6.87 | 6.95 |
| Voc (V) at NOCT | 42.78 | 42.94 | 43.1 | 43.22 |
| Isc (A) at NOCT | 7.13 | 7.20 | 7.30 | 7.40 |

*NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Temperature Coefficients (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) | - 0.40 % /°C |
| Maximum System Voltage | 1000 V (IEC & UL) |
| NOCT | 44°C ± 2°C |
| Temperature Range | - 40°C to + 85°C |

Mechanical Data

| | |
|--------------------------------------|--|
| Length | 1976 mm |
| Width | 992 mm |
| Height | 35 mm & 40 mm |
| Weight | 22Kg (35 mm) & 27 kg (40 mm) |
| Junction Box | IP67 |
| Cable & Connectors | 1000mm length cable, MC4 & Amphenol Connectors |
| Application Class | CLASS A (Safety Class II) |
| Superstrate | HIGH Transmittance ARC Glass |
| Cells | 72 Multi-crystalline solar cells; 4 bus bars; 156x156 mm |
| Cell Encapsulation | EVA |
| Substrate | Backsheet |
| Frame | Anodized aluminum frame with twin wall profile |
| Mechanical load Test as per IEC & UL | 5400 Pa-Front ; 2400 Pa-Back |
| Maximum Series Fuse Rating | 15 A |

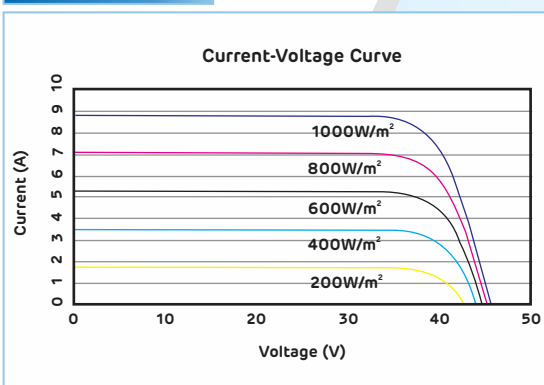
Packing Information

| Container | 20'GP | 40'HC |
|--------------------|-------|-------|
| Pallets/ Container | 10 | 24 |
| Pieces/ Container | 250 | 600 |

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 year |
| Approvals and Certificates* | IEC 61215 Ed2, IEC 61730, IEC 61701, UL 1703, MCS, JET, CEC, CEC-Aus, IEC 62716, IEC 62759 |

IV Curves



*CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
NOTE:

- The specification included in this datasheet are subject to change without notice.
- The Electrical Data given here are for reference only.
- Please confirm your exact requirements with the Sales Representative while placing your order

*All Certifications under progress.

** Warranty :- Please read Adani Solar Warranty Documents thoroughly

*This is a preliminary datasheet and is subjected to change as per manufacturer & Certifying body's results.