



5BB Multi-crystalline Solar PV Modules – 1000V series

ASP-7-AAA (AAA=305-335) | 72 Cells | 305-335 Wp

Highlights



More power/m² 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/m²



5BB modules offer better performance against microcracks compared to 4BB & 3BB modules



Triple EL checking to ensure defect free modules

Reduces installation costs by 2%

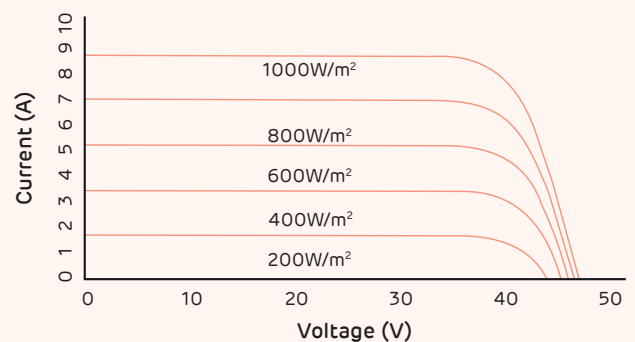
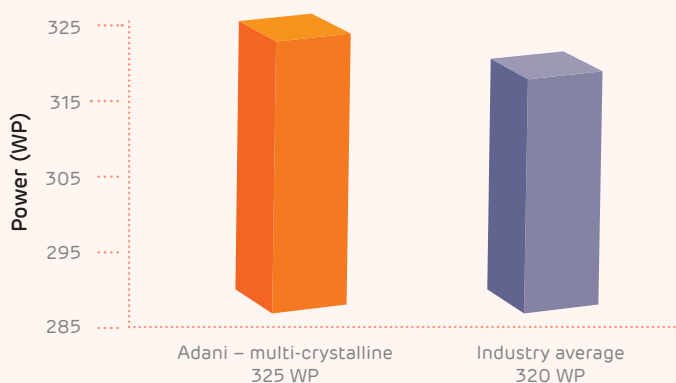
Reduces transport costs by 2%

Reduces land costs by 2%

Reduces BOS costs by 2%

Significant advantages of Adani 5BB multi-crystalline module

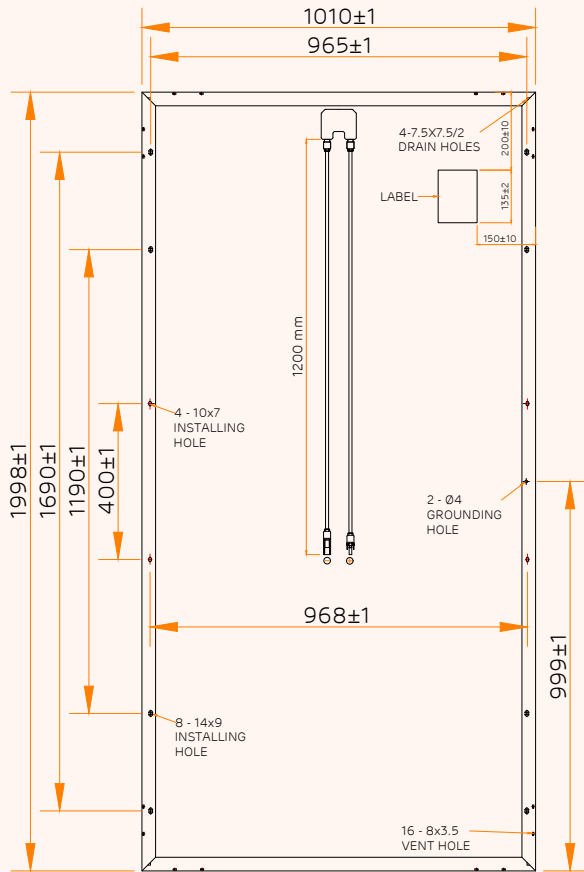
Current-voltage curve



Note: Data is based on the comparison of the Adani-72 cells standard multi (325Wp) with industry's average of 320 Wp module for a scale of 1 MW installation and cost reduction will vary from site to site.

Technical Data

Dimensions in mm



Packing information

| | |
|-------------------|------------------------|
| Container | 40'HC |
| Pallets/Container | 22 |
| Pieces/Container | 682 (35 mm)/594(40 mm) |

Warranty and certifications

Product warranty**

12 years of 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, IEC 62782, IEC 60068-2-68, IEC 61853



*Caution:

Please read safety and installation instructions before using the product.

Electrical data – All data measured to STC*

| | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|
| Peak power, (0 ~+ 4.99 Wp) Pmax(Wp) | 305 | 310 | 315 | 320 | 325 | 330 | 335 |
| Maximum voltage, Vmpp (V) | 35.55 | 35.99 | 36.42 | 36.85 | 37.29 | 37.71 | 38.15 |
| Maximum current, Impp (A) | 8.58 | 8.61 | 8.65 | 8.68 | 8.72 | 8.75 | 8.78 |
| Open circuit voltage, Voc (V) | 43.79 | 44.23 | 44.67 | 44.97 | 45.26 | 46.4 | 46.5 |
| Short circuit current, Isc (A) | 9.09 | 9.12 | 9.15 | 9.18 | 9.21 | 9.24 | 9.27 |
| Module efficiency (%) | 15.11 | 15.36 | 15.61 | 15.86 | 16.11 | 16.35 | 16.60 |

*STC: Irradiance 1000 W/m², cell temperature 25°C, air mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m² according to EN 60904-1. Except Pmp, all other parameters have a tolerance of +/-3 %, measurement uncertainty <3 %

Electrical parameters at NOCT

| | | | | | | | |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| Pmax @ NOCT | 223.1 | 227.5 | 232 | 238.4 | 242.5 | 246.8 | 252.1 |
| Vmpp @ NOCT | 35.02 | 35.27 | 35.31 | 35.37 | 35.25 | 35.41 | 35.53 |
| Impp @ NOCT | 6.37 | 6.45 | 6.57 | 6.74 | 6.88 | 6.97 | 7.10 |
| Voc @ NOCT | 41.99 | 42.22 | 42.31 | 42.67 | 42.77 | 42.92 | 43.16 |
| Isc @ NOCT | 7.07 | 7.11 | 7.22 | 7.33 | 7.42 | 7.50 | 7.60 |

*NOCT irradiance 800 W/m², 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) | -0.40 % /°C |
| Maximum system voltage | 1000 V (IEC & UL) |
| NOCT | 45°C ± 2°C |
| Temperature range | -40°C to + 85°C |

Mechanical data

| | |
|--------------------------------------|--|
| Length | 1998 mm |
| Width | 1010 mm |
| Height | 35 mm/40 mm |
| Weight | 23.5 Kg (35 mm) / 28 Kg (40mm) |
| Junction box | IP68 |
| 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; 5 bus bars |
| 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 |

Note:

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order. All models sold will be as per MSPVL QAP.

** Warranty:

Please read Adani Solar warranty documents thoroughly.