

ENCORE Series

5BB Multi-crystalline Solar PV Modules – 1500V Series

ASP-7-AAA (AAA=325 - 345) | 72 Cells | 325 - 345 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



Triple EL checking to ensure defect free modules



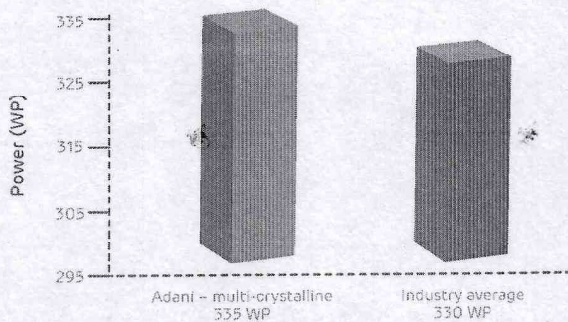
Reduces installation costs by 2%

Reduces transport costs by 2%

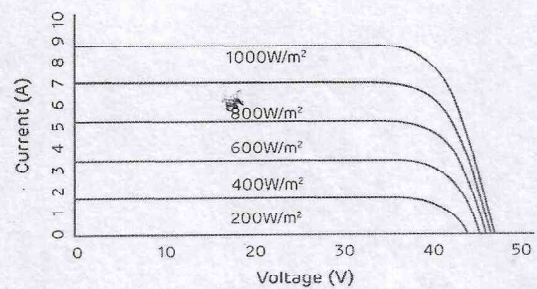
Reduces land costs by 2%

Reduces BOS costs by 4%

Significant advantages of Adani 5BB multi-crystalline module



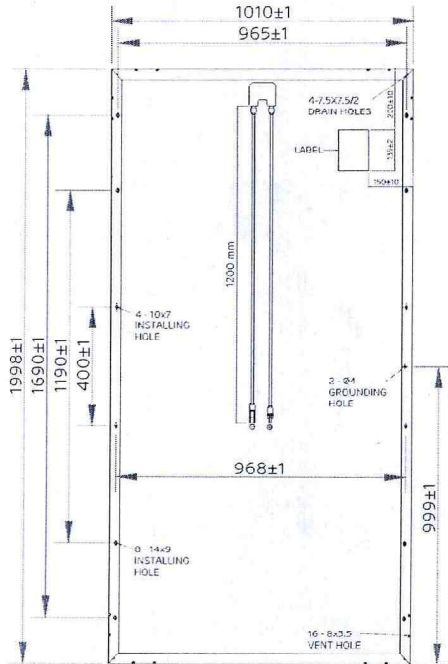
Current-voltage curve



31/07/12

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.

Peak power, (0 → 4.99 Wp)
P_{max}(Wp)

325 330 335 340 345

Electrical data – All data measured to STC*

Maximum voltage, V _{mpp}	(V)	36.84	37.25	37.67	37.92	38.33
Maximum current, I _{mpp}	(A)	8.82	8.86	8.91	8.99	9.02
Open circuit voltage, V _{oc}	(V)	45.12	45.4	45.65	45.89	46.19
Short circuit current, I _{sc}	(A)	9.36	9.41	9.58	9.65	9.710
Module efficiency	(%)	16.11	16.35	16.6	16.85	17.1

Electrical parameters at NOCT

Maximum Power P _{max} @ NOCT		242.5	246.8	252.1	257.0	261.8
Maximum voltage, V _{mpp}	(V)	35.25	35.41	35.5	35.6	35.7
Maximum current, I _{mpp}	(A)	6.88	6.97	7.1	7.2	7.4
Open circuit voltage, V _{oc}	(V)	42.77	42.92	43.2	43.4	43.6
Short circuit current, I _{sc}	(A)	7.42	7.5	7.6	7.7	7.8

*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 P_{mpp}, all other parameters have a tolerance of +/- 3 %, measurement uncertainty < 3 %

**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		1500 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	22.7 Kg (35 mm) / 23 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.

3/1/17