adani Solar

ENCORE Series

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

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

Highlights

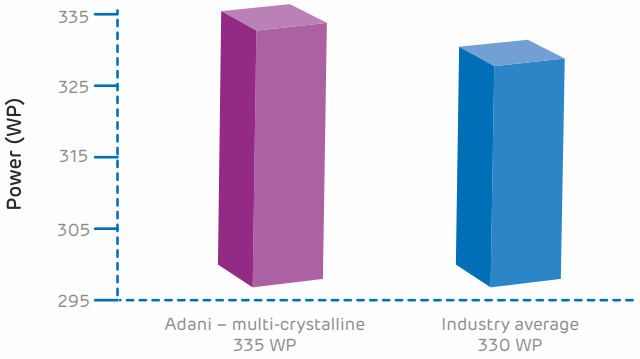
- More power/m^2 compared to industry average
- Higher specific energy yield (kwh/kwp) due to superior cell + module engineering
- Superior performance at NOCT and PCT conditions
- Superior low light irradiation performance 200w/m^2
- Triple EL checking to ensure defect free modules

TIER-1 BANKABLE MODULES

Reduces installation costs by 2%	Reduces transport costs by 2%	Reduces land costs by 2%	Reduces BOS costs by 4%

2020 TOP PERFORMER
PVEL | DNV·GL
PV MODULE RELIABILITY SCORECARD

Significant advantages of Adani 5BB multi-crystalline module



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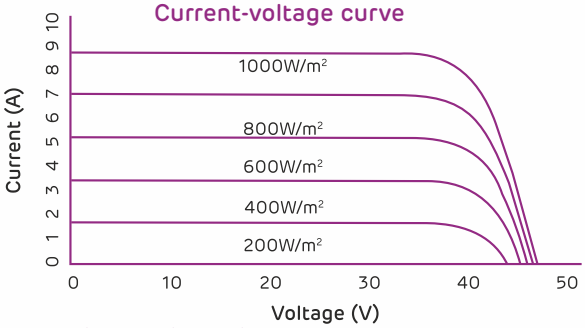
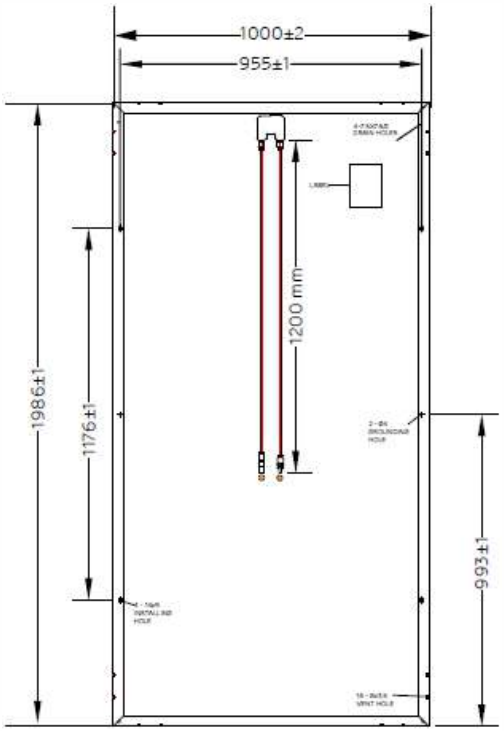
Technical Data

Current-voltage curve



Dimensions in mm



Packing information

Container	40'HC
Pallets/Container	22
Pieces/Container	682 (35 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

Recyclable packaging

EU-28 WEEE COMPLIANT

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

Peak power, (0 ~+ 4.99 Wp) Pmax(Wp)		325	330	335	340	345
Electrical data – All data measured to STC*						
Maximum voltage, Vmpp	(V)	36.84	37.25	37.67	37.92	38.33
Maximum current, Impp	(A)	8.82	8.86	8.91	8.99	9.02
Open circuit voltage, Voc	(V)	45.12	45.4	45.65	45.89	46.19
Short circuit current, Isc	(A)	9.36	9.41	9.58	9.65	9.710
Module efficiency	(%)	16.36	16.61	16.86	17.11	17.37
Electrical parameters at NOCT						
Maximum Power Pmax @ NOCT		242.5	246.8	252.1	257.0	261.8
Maximum voltage, Vmpp	(V)	35.25	35.41	35.5	35.6	35.7
Maximum current, Impp	(A)	6.88	6.97	7.1	7.2	7.4
Open circuit voltage, Voc	(V)	42.77	42.92	43.2	43.4	43.6
Short circuit current, Isc	(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 Pmpp, 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	1986 mm
Width	1000 mm
Height	35 mm
Weight	21 Kg
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.

MSPVL/MDL/PDM/Spec/29/RevXX