Frameless Bifacial Dual Glass PV Modules

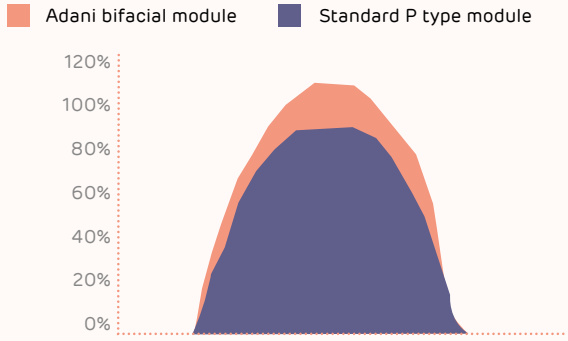
ASB-6-AAA (AAA=285-290) | 60 Cells | 285-290 Wp

Highlights

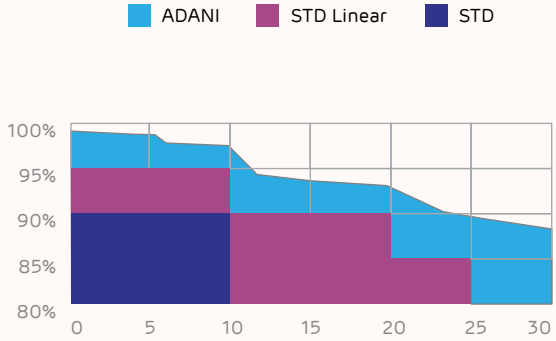
- Modules made with N type bifacial solar cells
- Up to 370Wp at 30 % ground reflectivity
- Characterized for 1000W/m2 & 200W/m2 on the rear side
- Up to 85 % bifaciality factor
- 2*IEC testing to ensure extremely high reliability of PV modules
- Near zero LID, PID free, 1500 V module
- High insulation resistance due to special raw materials

Reduces installation costs by 4%	Reduces transport costs by 6%	Reduces land costs by 6%	Reduces BOS costs by 6%

Higher generation due to bifacial technology



Significant benefit of bifacial technology



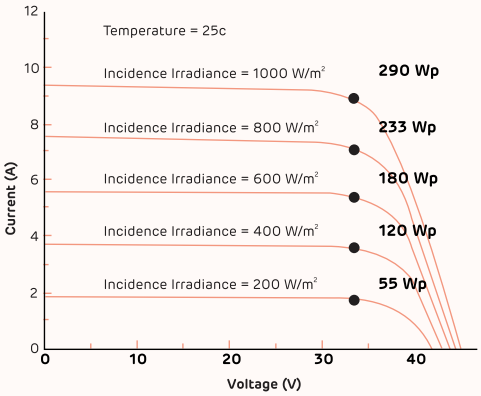
Note: Data is based on the comparison of the Adani -60 cells bifacial module (290Wp) with industry's average of 255 Wp multi-crystalline module for a scale of 1 MW installation and cost reduction will vary from site to site and project to project basis.

* "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".

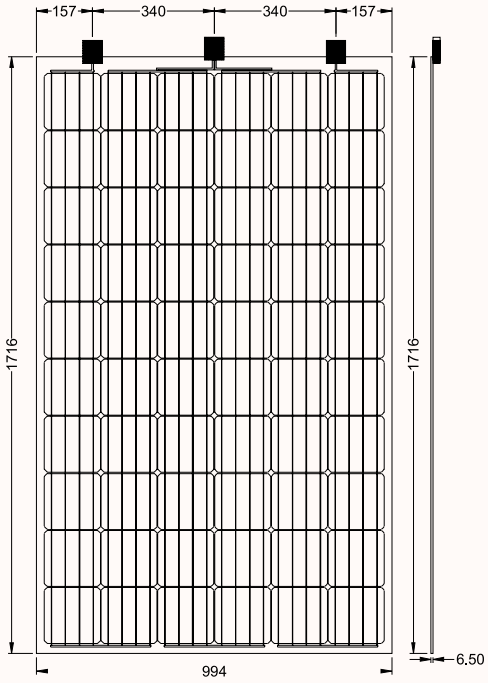
www.adanisolar.com

Technical Data

Multi irradiance curve for ASB-6-AAA



Dimensions in mm



Warranty and certifications

Product warranty**
30 years linear power warranty

Performance guarantee**
Power degradation < 2.5 % / year in first year
< 0.40 % / year in 2-30 years

Approvals and certificates: IIEC 61215 Ed2
IEC 61730, IEC 61701, UL 1703, MCS, JET,
CEC, CEC-Aus, IEC 62716, IEC 62759

Packing information

Container	40'HC
Pallets / Container	24
Pieces / Container	700

Electrical data – All data measured to STC *

Electrical specifications-285Wp	Only front (STC)	Irradiance percentage on backside based on ground reflectivity			
		15%	20%	25%	30%
Peak power, (0 ~+ 4.99 Wp) Pmax(Wp)	285	321.76	337.37	346.02	359.70
Maximum voltage, Vmpp (V)	32.60	32.70	32.75	32.83	32.88
Maximum current, Impp (A)	8.73	9.84	10.21	10.54	10.94
Open circuit voltage, Voc (V)	42.1	42.3	42.4	42.5	42.6
Short circuit current, Isc (A)	9.45	10.70	11.10	11.50	11.90
Module efficiency (%)	16.75	18.88	19.80	18.82	21.55

Electrical specifications-290Wp	Only front (STC)	Irradiance percentage on backside based on ground reflectivity			
		15%	20%	25%	30%
Peak power, (0 ~+ 4.99 Wp) Pmax(Wp)	290	327.22	338.02	351.92	362.42
Maximum voltage, Vmpp (V)	33.10	33.12	33.14	33.20	33.25
Maximum current, Impp (A)	8.78	9.88	10.20	10.60	10.90
Open circuit voltage, Voc (V)	39.57	39.60	39.62	39.64	39.68
Short circuit current, Isc (A)	9.53	10.80	11.20	11.60	12.00
Module efficiency (%)	17.04	19.21	20.23	21.04	21.94

***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 %

Temperature co-efficients, NOCT and operating voltage

TC of open circuit voltage (β)	- 0.31 % /°C
TC of short circuit current (α)	0.065 % /°C
TC of power (γ)	- 0.40 % /°C
Maximum system voltage	1500 V (IEC & UL)
NOCT	44°C ± 2°C
Temperature range	- 40°C to + 85°C

Mechanical data

Length	1716 mm
Width	994 mm
Height	6.50 mm
Weight	19 Kg
Junction box	IP67, 3 junction box, MC4 compatible
Cable and connectors	1000mm length cable, MC4 & Amphenol compatible connectors
Application class	Class A (Safety class II)
Superstrate	High transmittance ARC glass
Cells	60 mono-crystalline N-type bifacial PERC solar cells; 4bus bars
Encapsulation	Low shrinkage PID free encapsulant
Substrate	High transmittance glass 2.5 mm
Frame	Frameless
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.

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

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