

# **ELAN Series**5BB P-Type PERC Bifacial PV Modules

ASB-7-AAA (AAA=370-395) | 72 Cells | 370-395 Wp

## Highlights



Modules made with P-type bifacial solar cells



Up to 500 Wp at 30% ground reflectivity



Characterised for 1000W/m2 & 200W/m2 on the front and rear side respectively



Up to 65% bifaciality factor



3\*IEC testing to ensure extremely high reliability of PV modules



Least degradation for LID & LeTID



Higher performance at wavelength (1100-1200)



Linear warranty of 30 years

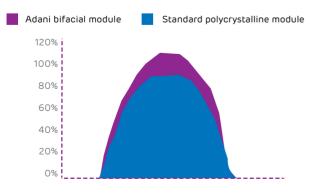
Reduces installation costs by 2%

Reduces transport costs by 4%

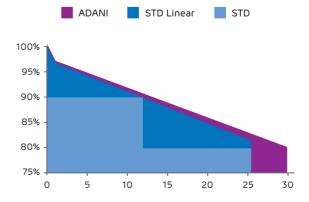
Reduces land costs by 4%

Reduces BOS costs by 5%

#### Higher generation due to bifacial technology

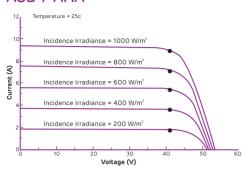


#### Bifacial technology

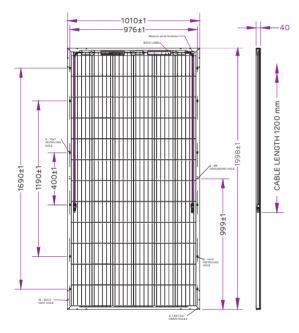


## **Technical Data**

#### Multi irradiance curve for **ASB-7-AAA**



#### Dimensions in mm



#### Warranty and certifications

Product warranty\*\*

12 years of product warranty

Performance guarantee\*\*

Power degradation <- 3% in first year <- 0.58% /year in 2-30 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

\*All certifications are under process

















#### Electrical data - All data measured to STC\*

Electrical Specification		Only front (STC)				
Peak power, (0 -+ 4.99 Wp) Pmax(Wp)	370	375	380	385	390	395
Maximum voltage, Vmpp (V)	39.81	40.04	40.27	40.5	40.73	40.96
Maximum current, Impp (A)	9.32	9.39	9.46	9.53	9.60	9.67
Open circuit voltage, Voc (V)	48.63	48.82	49.01	49.2	49.39	49.58
Short circuit current, Isc (A)	9.92	9.97	10.02	10.07	10.12	10.17
Module efficiency (%)	18.34	18.58	18.83	19.08	19.33	19.57

\*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 %

### Electrical Characteristics with different rear side power gain (Reference 385 Wp Front)

Electrical Specification	Pmax gain from rear side*				
Ground Reflectance	10%	15%	20%	25%	30%
Peak power, (0 -+ 4.99 Wp)Pmax(Wp)	420	440	460	480	500
Maximum voltage, Vmpp (V)	40.51	40.51	40.52	40.52	40.53
Maximum current, Impp (A)	10.40	10.90	11.39	11.85	12.20
Open circuit voltage, Voc (V)	49.21	49.21	49.22	49.22	49.23
Short circuit current, Isc (A)	10.92	11.45	11.96	12.44	12.81
Module efficiency (%)	20.81	21.80	22.80	23.79	24.78

<sup>\*</sup> Power gain from rear side depends upon the ground reflectance (Albedo) & Bifaciality factor.

### Temperature co-efficients (TC) and permissible operating conditions

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

#### Mechanical data

Mechanical data	
Length	1998 mm
Width	1010 mm
Height	40 mm
Weight	23 kg (40 mm)
Junction box	IP67; junction box, MC4 compatible
Cable and connectors	1200 mm length cable, MC4 & Amphenol compatible connectors
Application class	Class A (Safety class II)
Superstrate	High transmittance ARC glass 3.2 mm
Cells	72 mono-crystalline P-type bifiacial PERC solar cells; 5 bus bars
Encapsulation	Low shrinkage PID free encapsulant POE
Substrate	Transparent Backsheet
Frame	Anodized Frame
Mechanical load test as per IEC & UL	5400 Pa-front; 2400 Pa-back
Maximum series fuse rating	20 A

#### Packing information

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Container	40'HC
Pallets / Container	22
Pieces / Container	594

- 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.

Please read safety and installation instructions before using the product.