

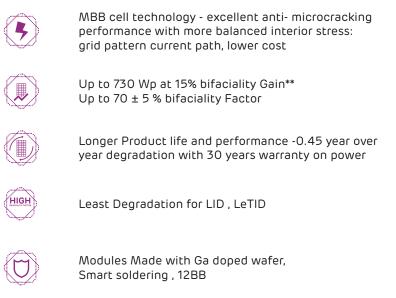


ELAN PRIDE Series

MBB P-Type PERC Half-cut Bifacial PV Modules

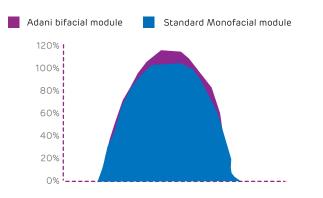
ASB-M12-132-AAA (AAA=630-650) | 132 Cells | 630-650 Wp

Highlights



High salt mist and ammonia resistance

Higher generation due to bifacial technology



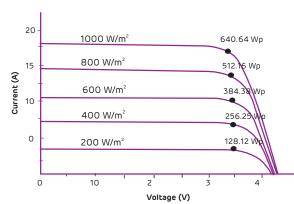
Warranty based on Power



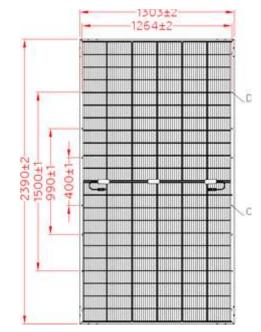
Technical Data

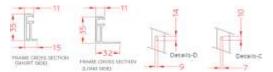
ASB-M12-132-AAA

Cell temp: 25°C



Dimensions in mm





Warranty and certifications

Product warranty** 12 years of product warranty

Performance guarantee**

Power degradation <2.0 % in first year <0.55 % / 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, BIS

*All certifications are under process





Solar

Electrical data – All data measured to STC*

Electrical Specification		Only front (STC)			
Peak power, (0 ~+ 4.99 Wp) Pmax(Wp)	630	635	640	645	650
Maximum voltage, Vmpp (V)	36.66	36.82	37.01	37.15	37.32
Maximum current, Impp (A)	17.19	17.25	17.31	17.37	17.44
Open circuit voltage, Voc (V)	42.87	43.08	43.28	43.47	43.66
Short circuit current, Isc (A)	18.57	18.63	18.69	18.75	18.85
Module efficiency (%)	20.23	20.39	20.55	20.71	20.87

*STC: Irradiance 1000 W/m², cell temperature 25°C, ir 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 640 Wp Front)

Electrical Specification		Pmax gain t	from rear sid	e*
Bifaciality Gain	5%	10%	15%	20%
Peak power, (0 ~+ 4.99 Wp) Pmax(Wp)	670	700	730	765
Maximum voltage, Vmpp (V)	37.01	37.01	37.01	37.01
Maximum current, Impp (A)	18.00	18.91	19.84	20.06
Open circuit voltage, Voc (V)	42.91	42.91	42.91	42.91
Short circuit current, Isc (A)	19.57	20.47	21.36	22.35
Module efficiency (%)	21.51	22.48	23.44	24.57
* Power gain from rear side depends upon the ground	i reflectance (/	Albedo) & Bifa	ciality factor.	

* Power gain from rear side depends upon the ground reflectance (Albedo) & Bifaciality factor.

Temperature co-efficients (Tc) and permissible operating conditions

T_c of open circuit voltage (β)	-0.25% /°C		
$T_{\rm c}$ of short circuit current ($\alpha)$	0.041 % /°C		
T_c of power (γ)	-0.34 % /°C		
Maximum system voltage	1500 V (IEC & UL)		
NOCT	44°C ± 2°C		
Temperature range	-40°C to + 85°C		

Mechanical data

2390 mm
1303 mm
35 mm
39.9 kg
IP68; Junction box, MC4 compatible
300 mm length cable, MC4 & Amphenol compatible connectors
Class A (Safety class II)
2.0mm High Transmission ARC, Heat Strengthened Glass
132 half-cut mono-crystalline P-type PERC bifacial solar cells; MBB
High volume resistivity and low MVTR
Semi Tempered Glass -2.0 mm
Anodized Frame
5400 Pa-front; 2400 Pa-back*
30 A

Packaging Configuration

Container 40'HC

Pieces / Container 558

**Disclaimer : Pieces/Container will change subject to Packing design Modification.

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.

Authorized distributor: Loop Solar