



5BB Mono-crystalline PERC Silicon Solar PV Modules – 1500V series

ASM-7-PERC-AAA (AAA=340-365) | 72 Cells | 340-365 Wp

Highlights



7% higher power output compared to industry average poly-crystalline module



Higher performance at longer wavelengths of light (1100-1200 nm)



Superior temperature co-efficient and performance at NOCT, PTC ratings



Excellent performance at low light irradiation (200 W/m2)



LIR treated cells with least LID effect



5 Bus Bar cells offering better reliability against microcracks



Triple EL checking to ensure defect free modules

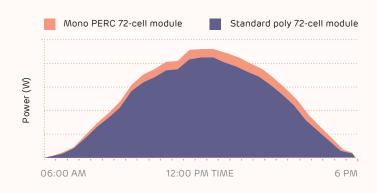
Reduces installation costs by 3%

Reduces transport costs by 3%

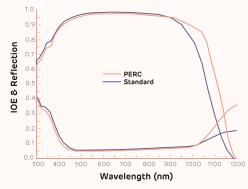
Reduces land costs by 3%

Reduces BOS costs by 6%

Higher generation due to Mono PERC technology



Significant benefit of PERC technology



PERC technology enables better light capturing abilities at longer wavelength, weak and diffused light and in cloudy conditions.

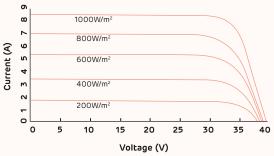
Note: Data is based on the comparison of the Adani-72 cells mono-crystalline (345 Wp) with industry's 325 Wp poly-crystalline module for a scale of 1 MW installation and will vary from site to site.

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Technical Data

Solar

Current-Voltage Curve

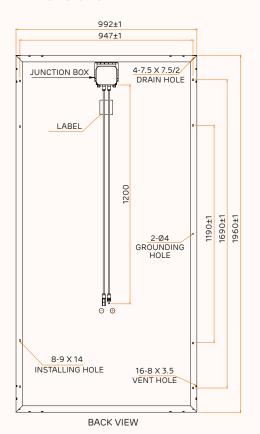


Electrical data - All data measured to STC*

Peak power, (0 ~+ 4.99 Wp) Pmax (Wp)	340	345	350	355	360	365
Maximum voltage, Vmpp (V)	38.82	39.11	39.21	39.41	39.61	39.80
Maximum current, Impp (A)	8.76	8.82	8.93	9.01	9.09	9.18
Open circuit voltage, Voc (V)	47.12	47.40	47.60	47.90	47.90	48.20
Short circuit current, Isc (A)	9.22	9.28	9.36	9.42	9.48	9.55
Module efficiency (%)	17.49	17.74	18.00	18.26	18.52	18.78

*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%

Dimensions in mm



Electrical parameters at NOCT

Pmax @ NOCT	254	258	263	266	271	275
Vmpp @ NOCT	36.91	37.4	37.46	37.62	37.92	38.13
Impp @ NOCT	6.88	6.9	7.01	7.07	7.14	7.21
Voc @ NOCT	45.55	46.2	46.4	46.3	46.6	46.87
Isc @ NOCT	7.3	7.32	7.38	7.48	7.56	7.61

^{*}NOCT irradiance 800 W/m2, ambient temperature 20°C, wind speed 1 m/sec

Temperature co-efficients (TC) and permissible operating conditions

NOCT	45°C ± 2°C
Maximum system voltage	1500 V (IEC & UL)
TC of power (Y)	-0.39% /°C
TC of short circuit current (α)	0.048% /°C
TC of open circuit voltage (β)	-0.29% /°C

Mechanical data

1960 mm
992 mm
35 mm/40 mm
22 Kg (35 mm)/27 Kg (40 mm)
IP67
1200 mm length cable, MC4 & Amphenol compatible connectors
Class A (Safety class II)
High transmittance arc glass
72 mono-crystalline PERC solar cells; 5 bus bars, 156.75 mm x 156.75 mm
Low shrinkage PID resistant EVA
Back sheet
Anodized aluminium frame with twin wall profile
5400 Pa-front; 2400 Pa-back
15 A

Warranty and certifications

Product warranty**

12 years of product warranty

Performance guarantee**

Power degradation <- 3% 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 62759, IEC 62804, IEC 62782, IEC 60068-2-68, IEC 61853















*Caution:

Please read safety and installation instructions before using the product.

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.