



ETERNAL SERIES

5BB Mono-Crystalline PERC Silicon Solar PV Modules – 1500V Series

ASM-7-PERC-AAA (AAA=355 - 375) | 72 Cells | 355 - 375 Wp

Highlights



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 and LeTID effect



5 bus bar cells offering better reliability against microcracks



Triple EL checking to ensure defect free modules



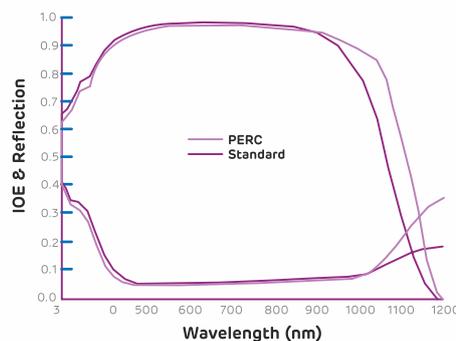
Reduces installation costs by 3%

Reduces transport costs by 3%

Reduces land costs by 3%

Reduces BOS costs by 6%

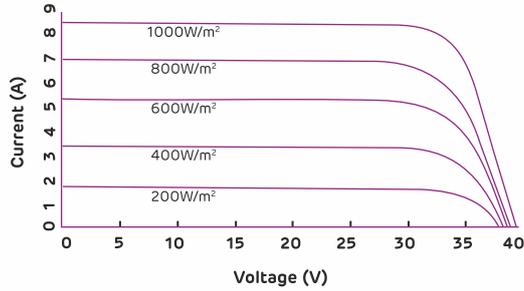
Significant benefit of PERC technology



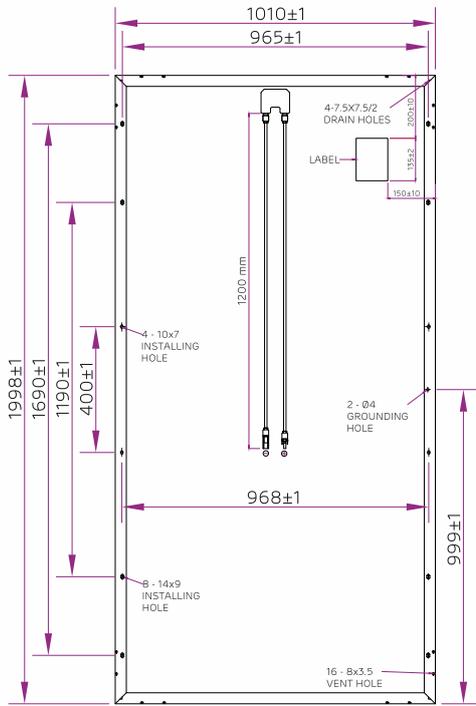
PERC technology enables better light capturing abilities at longer wavelength, weak and diffused light and in cloudy conditions.

Technical Data

Current-Voltage Curve



Dimensions in mm



Peak power, (0 ~+ 4.99 Wp)
Pmax (Wp)

	355	360	365	370	375
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Electrical data – All data measured to STC*

Maximum voltage, Vmpp (V)	38.68	38.85	39.01	39.16	39.34
Maximum current, Imp (A)	9.17	9.25	9.36	9.46	9.55
Open circuit voltage, Voc (V)	46.88	47.07	47.31	47.47	47.67
Short circuit current, Isc (A)	9.85	9.88	9.90	9.96	10.10
Module efficiency (%)	17.59	17.84	18.09	18.34	18.58

Electrical parameters at NOCT

Maximum Power Pmax @ NOCT	266	271	275	279.2	283.4
Maximum voltage, Vmpp (V)	37.62	37.92	38.13	38.36	38.58
Maximum current, Imp (A)	7.07	7.14	7.21	7.28	7.35
Open circuit voltage, Voc (V)	46.3	46.6	46.87	47.09	47.31
Short circuit current, Isc (A)	7.48	7.56	7.61	7.68	7.75

*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)	-0.29% /°C
TC of short circuit current (α)	0.048% /°C
TC of power (γ)	-0.39% /°C
Maximum system voltage	1500 V (IEC & UL)
NOCT	45°C ± 2°C
Temperature range	-40°C to + 85°C

Mechanical data

Length	1998 mm
Width	1010 mm
Height	35 mm/40 mm
Weight	22.7 Kg (35 mm) / 23 Kg (40mm)
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 mono-crystalline PERC solar cells; 5 bus bars
Encapsulation	Low shrinkage 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

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.