adani Solar

ETERNAL Series

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

ASM-7-PERC-AAA (AAA=365-390) | 72 Cells | 365-390 Wp

TIER-1 BANKABLE MODULES

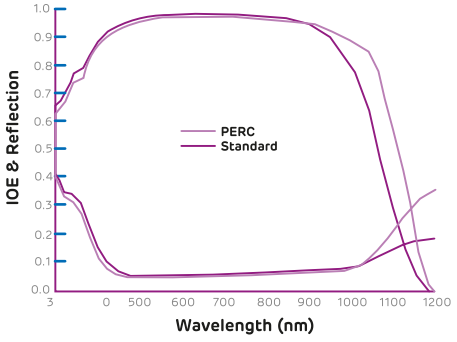
Highlights

- 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
- 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 5%

2019 TOP PERFORMER
PVEL | DNV·GL
PV MODULE RELIABILITY SCORECARD

Significant benefit of PERC technology

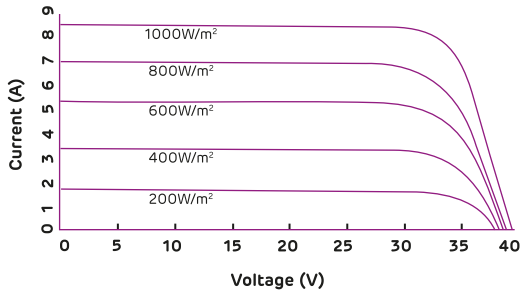


PERC technology enables better light capturing abilities at longer wavelength, weak and diffused light and in cloudy conditions.

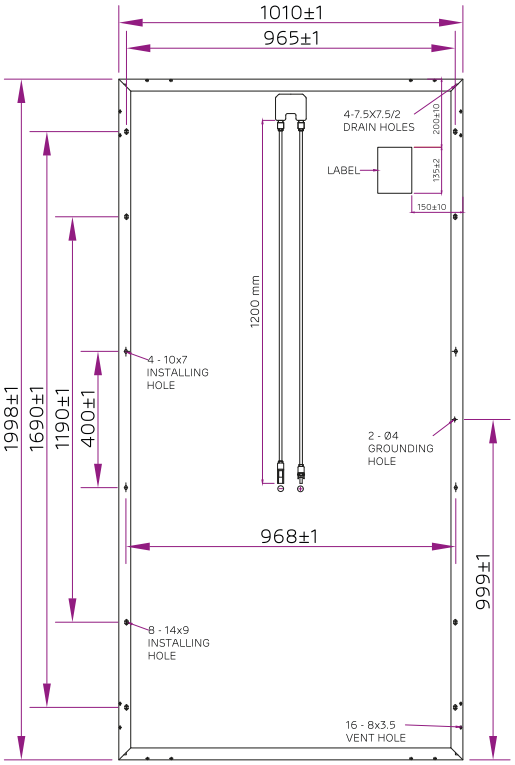
www.adanisolar.com

Technical Data

Current-Voltage Curve



Dimensions in mm



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

*All certifications are under process

Recyclable packaging

EU-28 WEEE COMPLIANT

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

Electrical data – All data measured to STC*

Peak power, (0 ~+ 4.99 Wp) Pmax (Wp)		365	370	375	380	385	390
Maximum voltage, Vmpp	(V)	39.01	39.16	39.34	39.5	39.66	39.82
Maximum current, Impp	(A)	9.36	9.46	9.55	9.64	9.743	9.84
Open circuit voltage, Voc	(V)	47.31	47.47	47.67	47.77	47.99	48.16
Short circuit current, Isc	(A)	9.93	9.99	10.03	10.06	10.11	10.16
Module efficiency	(%)	18.09	18.34	18.58	18.9	19.1	19.35

Electrical parameters at NOCT

Maximum Power Pmax @ NOCT		275	279.2	283.4	287.6	291.72	295.88
Maximum voltage, Vmpp	(V)	38.13	38.4	38.6	38.8	39.02	39.24
Maximum current, Impp	(A)	7.21	7.28	7.35	7.41	7.48	7.55
Open circuit voltage, Voc	(V)	46.87	47.09	47.31	47.53	47.77	48.00
Short circuit current, Isc	(A)	7.61	7.68	7.75	7.82	7.87	7.94

*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%

*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
Weight	22.7 Kg (35 mm)
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
Mechanical load test as per IEC & UL	5400 Pa-front; 2400 Pa-back
Maximum series fuse rating	15 A

Packing information

Container	40'HC
Pallets/Container	22
Pieces/Container	682

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.