

## ETERNAL Series Mono-crystalline PERC Silicon Solar PV Modules

ASM-6-PERC-AAA  
ASM-6-B-PERC-AAA (Black frame, white backsheet)  
ASM-6-AB-PERC-AAA (Black frame, black backsheet)  
60 Cells | 295-315 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/m<sup>2</sup>)



LIR treated cells with least LID effect



PID, salt mist and Ammonia resistant



Triple EL checking to ensure defect free modules



Reduces installation costs by 3%

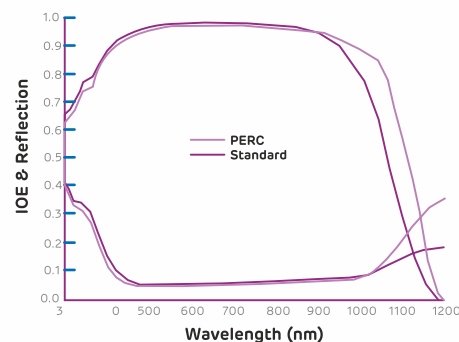
Reduces transport costs by 3%

Reduces land costs by 3%

Reduces BOS costs by 3%



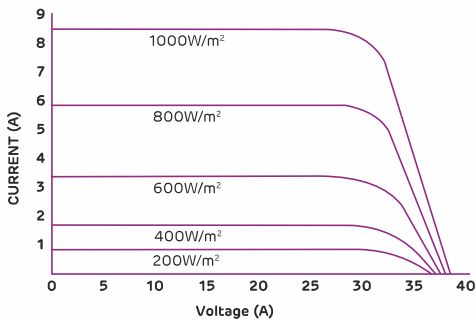
### Significant benefit of PERC technology



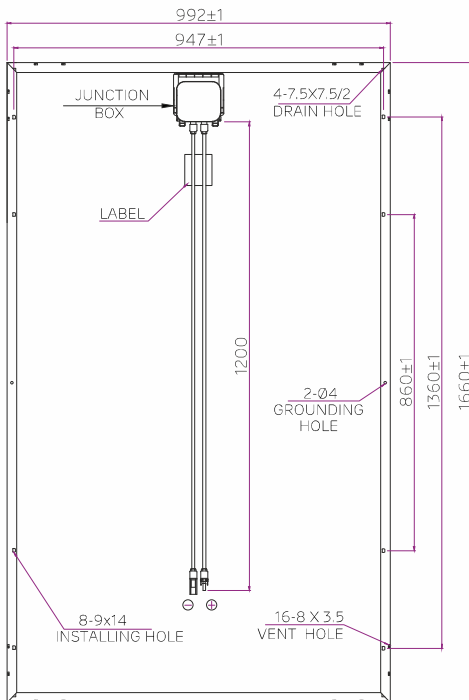
PERC technology enables better light capturing abilities at longer wavelength, weak and diffused light and in cloudy conditions.

# Technical Data

## Current-Voltage Curve



## Dimensions in mm



## Warranty and certifications

### Product warranty\*\*

12 years of product warranty

### Performance guarantee\*\*

Power degradation <- 2.5% 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

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

Peak power, (0 ~+ 4.99 Wp) Pmax (Wp)	295	300	305	310	315
Maximum voltage, Vmpp (V)	32.4	32.55	32.76	32.93	33.11
Maximum current, Imp (A)	9.1	9.21	9.3	9.42	9.52
Open circuit voltage, Voc (V)	39.44	39.53	39.92	40.11	40.35
Short circuit current, Isc (A)	9.93	10.01	10.27	10.41	10.58
Module efficiency (%)	17.91	18.2	18.52	18.8	19.11

## Electrical parameters at NOCT

Maximum Power Pmax @ NOCT	215	218	222	225	228
Maximum voltage, Vmpp (V)	29.68	29.91	30.25	30.56	30.85
Maximum current, Imp (A)	7.26	7.29	7.33	7.37	7.41
Open circuit voltage, Voc (V)	36.60	36.80	37.00	37.20	37.40
Short circuit current, Isc (A)	7.66	7.70	7.72	7.74	7.77

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, air mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m<sup>2</sup> according to EN 60904-1. Except Pmpp, all other parameters have a tolerance of +/-3%, measurement uncertainty <3%

\*NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

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

TC of open circuit voltage (β)	-0.31% /°C
TC of short circuit current (α)	0.068% /°C
TC of power (γ)	-0.40% /°C
Maximum system voltage	1000 / 1500 V (IEC & UL)
NOCT	44°C ± 2°C
Temperature range	-40°C to + 85°C

## Mechanical data

Length	1660 mm
Width	992 mm
Height	35 mm / 40 mm
Weight	17.5 Kg (35 mm) / 18.8 Kg (40mm)
Junction box	IP67, 14A junction box
Cable and connectors	1200 mm length cable, MC4 & Amphenol compatible connectors
Application class	Class A (Safety class II)
Superstrate	High transmittance ARC glass
Cells	60 mono-crystalline PERC solar cells; 5 bus bars
Encapsulation	Low shrinkage encapsulant
Substrate	Back sheet (Also available in black colour)#
Frame	Anodized aluminium frame with twin wall profile (Silver and Black)
Mechanical load test as per IEC & UL	5400 Pa-front; 2400 Pa-back
Maximum series fuse rating	15 A

### 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.