Mono-crystalline Silicon Solar PV Modules

ASM-7-PERC-AAA (AAA=335-350) | 72 Cells | 335-350 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 (200W/m²)
- 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%

Higher generation due to PERC technology

Significant benefit of PERC technology

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

Technical Data

Current-Voltage Curve

Voltage (V) 0 5 10 15 20 25 30 35 40
Current (A) 0 1 2 3 4 5 6 7 8 9

Power (Wp) at NOCT 1000W/m² 800W/m² 600W/m² 400W/m²

Electrical parameters at NOCT

Peak power, (O ~+ 4.99 Wp) Pmax(Wp) 335 340 345 350
Maximum voltage, Vmp (V) 37.96 38.19 38.4 38.59
Maximum current, Imp (A) 8.84 8.92 9 9.08
Open circuit voltage, Voc (V) 46.69 46.88 47.08 47.26
Short circuit current, Isc (A) 9.39 9.48 9.56 9.68
Module efficiency (%) 17.09 17.34 17.6 17.85

TC of open circuit voltage (β) -0.31% °C
TC of short circuit current (α) 0.069 % °C
TC of power (γ) -0.42 % °C

*NOCT: Irradiance 1000 W/m², cell temperature 25°C, air mass AM 1.5 according to EN 60904-3.
Average efficiency reduction of 4.5 % at 200 W/m² according to EN 60904-1

Dimensions in mm

Length 1976 mm
Width 992 mm
Height 35 mm / 40 mm
Weight 22 Kg (35 mm) / 27 Kg (40mm)
Junction box IP67
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 solar cells ; 4 bus bars, 156.75 mm x 156.75 mm
Encapsulation Low shrinkage PID resistant EVA
Substrate Back sheet
Frame Anodized aluminium frame with twin wall profile
Mechanical load test as per IEC 8 UL 5400 Pa-front ; 2400 Pa-back
Maximum series fuse rating 15 A

Warranty and certifications

Product warranty**
25 years linear power 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, MCS, JET, CEC-Aus, IEC 62716, IEC 62759, IEC 62804

*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.

** Warranty: Please read Adani solar warranty documents thoroughly.