# Solar Panel Guide Specification Data Sheet 

Adani Solar ASM-7-PERC-355-375 1500V<br>ASM-7-PERC-370

Solar

## 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

(5) Higher performance at longer wavelengths of light
$(1100-1200 \mathrm{~nm})$
(ii) 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

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Reduces installation
costs by 3%
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Reduces transport
costs by 3\%
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



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

| Peak power, (0~+4.99 Wp) <br> Pmax (Wp) |  | 355 | 360 | 365 | 370 | 375 |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Electrical data - All data measured to | STC* |  |  |  |  |  |

## 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, Impp | (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 $1000 \mathrm{~W} / \mathrm{m}^{2}$, cell temperature $25^{\circ} \mathrm{C}$, air mass AM1.5 according to EN 60904-3. Average efficiency reduction of $4.5 \%$ at $200 \mathrm{~W} / \mathrm{m}^{2}$ according to EN 60904-1. Except Pmpp, all other parameters have a tolerance of $+/-3 \%$, measurement uncertainty $<3 \%$
*NOCT irradiance $800 \mathrm{~W} / \mathrm{m} 2$, ambient temperature $20^{\circ} \mathrm{C}$, wind speed $1 \mathrm{~m} / \mathrm{sec}$
Temperature co-efficients (TC) and permissible operating conditions

| TC of open circuit voltage | $(\beta)$ | $-0.29 \% /{ }^{\circ} \mathrm{C}$ |
| :--- | :---: | :---: |
| TC of short circuit current | $(\alpha)$ | $0.048 \% /{ }^{\circ} \mathrm{C}$ |
| TC of power | $(\gamma)$ | $-0.39 \% /{ }^{\circ} \mathrm{C}$ |
| Maximum system voltage | $1500 \mathrm{~V}($ IEC \& UL) |  |
| NOCT | $45^{\circ} \mathrm{C} \pm 2^{\circ} \mathrm{C}$ |  |
| Temperature range | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |

Mechanical data

| Length | 1998 mm |
| :--- | :--- |
| Width | 1010 mm |
| Height | $35 \mathrm{~mm} / 40 \mathrm{~mm}$ |
| Weight | $22.7 \mathrm{Kg}(35 \mathrm{~mm}) / 23 \mathrm{Kg}(40 \mathrm{~mm})$ |
| Junction box | $\mathrm{IP68}$ |
| Cable and connectors | 1200 mm length cable, MC4 \& Amphenol <br> Application class |
| Superstrate | Class A (Safety class II) |
| Cells | 72 mono-crystalline PERC solar cells; 5 bus bars |
| Encapsulation | Low shrinkage PID resistant EVA |
| Substrate | Anodized aluminium frame with twin wall profile |
| Frame | 15 A |
| Mechanical load test as per IEC \& UL | 5400 Pa-front; 2400 Pa-back |
| Maximum series fuse rating | Trance arc glass |

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[^0]:    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.

