



Deutsche  
Qualität  
Garantiert



**AURORA**  
P-TYPE PERC TECHNOLOGY

MD-108

**395W-415W**

High in energy yield, reliability and durability

**21.28%**

MAXIMUM EFFICIENCY

**108**

HALF CELLS



**30 YEARS**

Performance Warranty

up to **30 YEARS\***

Product Warranty

\*The regular product warranty is 15 years, please refer to the latest version of AESOLAR Limited Warranty for the duration of the product warranty under special conditions. For extensions, please contact AESOLAR staff.



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



SAND  
RESISTANT

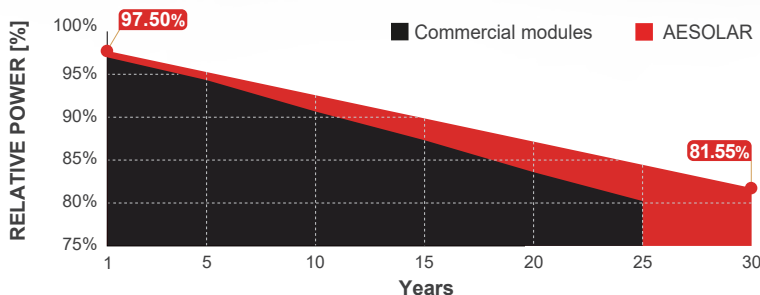


AMMONIA  
RESISTANT

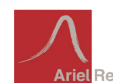


HIGHLY STABLE  
AND TOUGH

**OUR PERFORMANCE WARRANTY**



**SYSTEM AND PRODUCT CERTIFICATIONS**



IEC 61215 IEC 61730  
Regular Production Surveillance  
www.tuv.com  
ID 1111251295

IEC 62716 (Ammonia corrosion)  
IEC 61701 (Salt mist corrosion)  
IEC 60068 (Sand and dust)  
IEC 62804 (PID resistance)



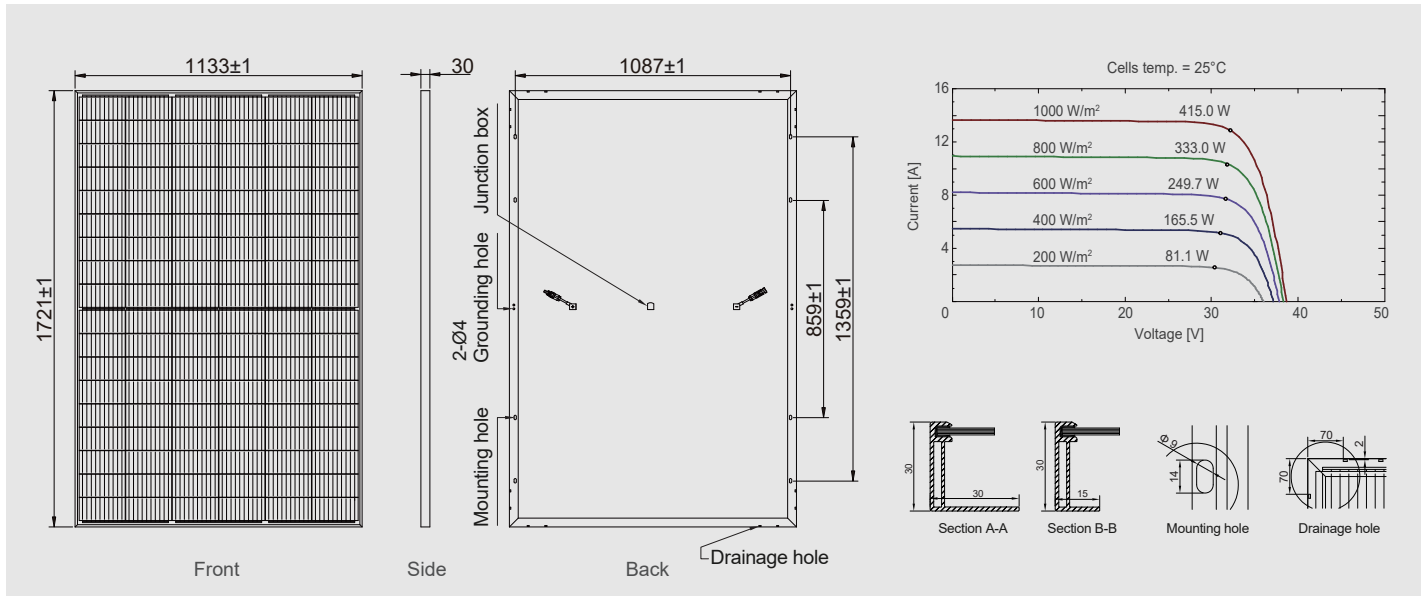
**AESOLAR**

www.ae-solar.com

# AE MD-108 395W-415W

P-TYPE PERC TECHNOLOGY PV MODULE

MONO-FACIAL PV MODULE



## Electrical specifications (STC\*):

|                            | $P_{max}$ (Wp) | 395   | 400   | 405   | 410   | 415   |
|----------------------------|----------------|-------|-------|-------|-------|-------|
| Nominal max. power         | $P_{max}$ (Wp) | 395   | 400   | 405   | 410   | 415   |
| Maximum operating voltage  | $V_{MPP}$ (V)  | 31.08 | 31.35 | 31.62 | 31.88 | 32.12 |
| Maximum operating current  | $I_{MPP}$ (A)  | 12.71 | 12.76 | 12.81 | 12.86 | 12.92 |
| Open-circuit voltage       | $V_{oc}$ (V)   | 37.36 | 37.69 | 38.02 | 38.35 | 38.67 |
| Short-circuit current      | $I_{sc}$ (A)   | 13.47 | 13.52 | 13.57 | 13.62 | 13.67 |
| Module efficiency          | $\eta$ (%)     | 20.26 | 20.51 | 20.77 | 21.03 | 21.28 |
| Power tolerance            | (W)            |       |       | 0~+5  |       |       |
| Maximum system voltage     | (V)            |       |       | 1500  |       |       |
| Maximum series fuse rating | (A)            |       |       | 25    |       |       |

\*STC: Standard Test Conditions (irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C and air mass of AM1.5), measurement tolerance  $P_{max}$ : ±3%

## Electrical specifications (NMOT\*):

|                           | $P_{max}$ (Wp) | 298   | 301   | 304   | 308   | 311   |
|---------------------------|----------------|-------|-------|-------|-------|-------|
| Nominal max. power        | $P_{max}$ (Wp) | 298   | 301   | 304   | 308   | 311   |
| Maximum operating voltage | $V_{MPP}$ (V)  | 29.30 | 29.50 | 29.70 | 29.90 | 30.10 |
| Maximum operating current | $I_{MPP}$ (A)  | 10.17 | 10.21 | 10.25 | 10.29 | 10.34 |
| Open-circuit voltage      | $V_{oc}$ (V)   | 35.20 | 35.40 | 35.60 | 35.80 | 36.00 |
| Short-circuit current     | $I_{sc}$ (A)   | 10.78 | 10.82 | 10.86 | 10.90 | 10.94 |

\*NMOT: Normal Module Operating Temperature (irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

## Mechanical and design specification

|                 |  |
|-----------------|--|
| Cell type       | Gallium-doped mono c-Si PERC, half-cut cells         |
| No. of cells    | 108  |
| Front cover     | 3.2 mm glass, high transmission, AR coated, tempered |
| Encapsulation   | EVA  |
| Back cover      | White backsheet                                      |
| Junction box    | IP68 rated, 3 bypass diodes                          |
| Frame           | 30 mm anodized aluminium alloy                       |
| Cable           | 1 x 4 mm <sup>2</sup> , 350 mm length or customized  |
| Connectors      | MC 4 / MC 4 compatible                               |
| Dimension       | 1721 mm x 1133 mm x 30 mm                            |
| Weight          | 20.3 kg  |
| Hail resistance | Max. Ø 25 mm at 23 m/s                               |
| Wind load       | 2400 Pa or 244 kg/m <sup>2</sup>                     |
| Snow load       | 5400 Pa or 550 kg/m <sup>2</sup>                     |

## Temperature ratings

|                                |              |
|--------------------------------|--------------|
| Operating temperature          | -40 to +85°C |
| Temp. coefficient of $P_{max}$ | -0.35 %/°C   |
| Temp. coefficient of $V_{oc}$  | -0.275 %/°C  |
| Temp. coefficient of $I_{sc}$  | 0.045 %/°C   |
| Nom. operating cell temp. NOCT | 45 ± 2°C     |

## Packaging information

|                         |                             |
|-------------------------|-----------------------------|
| Packaging configuration | 36 pcs / pallet             |
| Loading capacity        | 936 pcs / 40 HQ             |
| Size / Pallet           | 1755 mm x 1140 mm x 1245 mm |
| Weight                  | 764 kg / pallet             |

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.