

 Deutsche  
 Qualität  
 Garantiert



108

HALF  
CELLS

182  
mm

CELL  
SIZE



LID  
RESISTANT



PID  
RESISTANT



SALT CORROSION  
RESISTANT



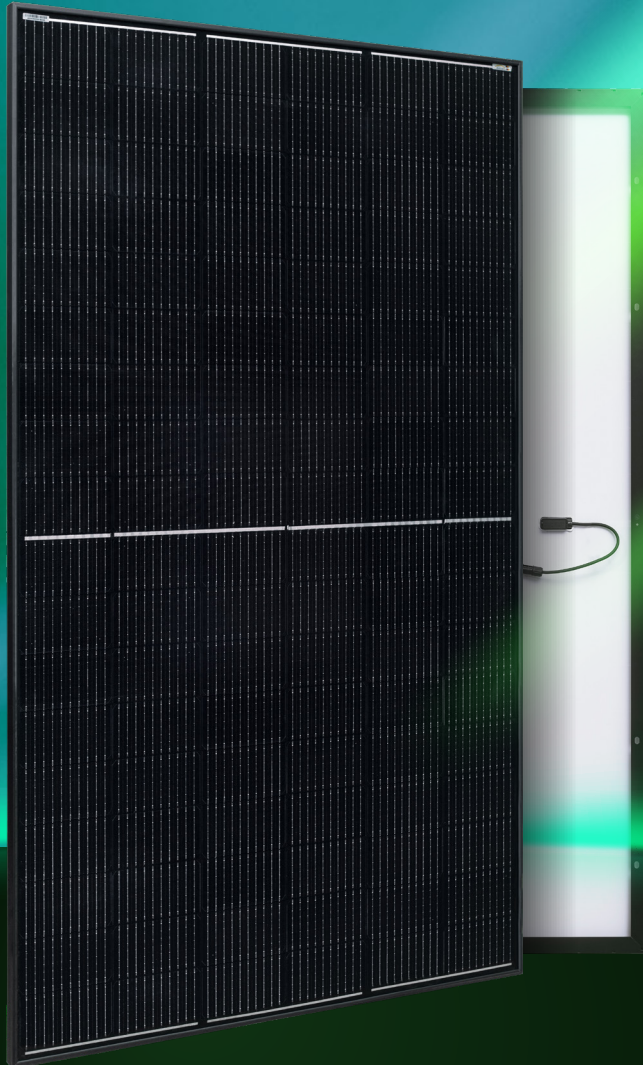
SAND  
RESISTANT



AMMONIA  
RESISTANT



HIGHLY STABLE  
AND TOUGH



# AURORA

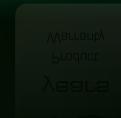
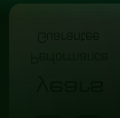
**HIGH** ENERGY YIELD  
RELIABILITY  
DURABILITY

30

years  
Performance  
Guarantee

15

years  
Product  
Warranty



MONO-CRYSTALLINE PV MODULES  
HALF-CUT CELLS • MONO-FACIAL • BLACK

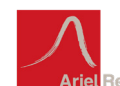
## 395W-415W

### AE MD-108E Series



IEC 61215  
IEC 61730  
Regular Production Surveillance  
Type Tested and Monitored

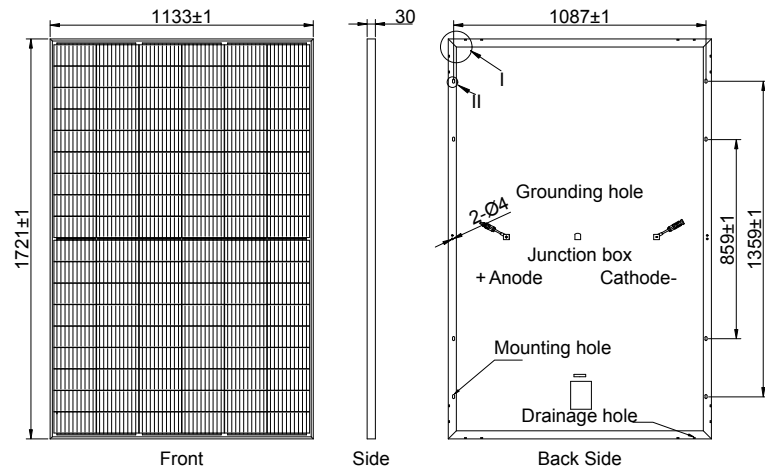
IEC 62716 (Ammonia corrosion)  
IEC 61701 (Salt mist corrosion)  
IEC 60068 (Sand and dust)  
IEC 62804 (PID resistance)



www.ae-solar.com

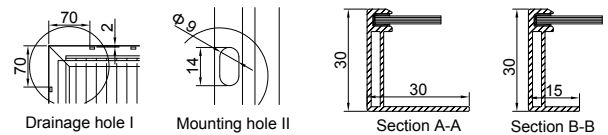
### Mechanical and design specification

|                 |  |
|-----------------|--|
| Cell type       | Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm |
| No. of cells    | 108  |
| Glass           | 3.2 mm, high transmission, AR coated, tempered       |
| Encapsulation   | EVA  |
| Back cover      | EVA-side Black, Rear-side White Backsheet            |
| Junction box    | IP 68 rated  |
| 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          | 21 kg  |
| Hail resistance | Max. Ø 25 mm at 23 m/s                               |
| Wind load       | 2400 Pa/ 244 kg/ m <sup>2</sup>                      |
| Mechanical load | 5400 Pa/ 550 kg/ m <sup>2</sup>                      |



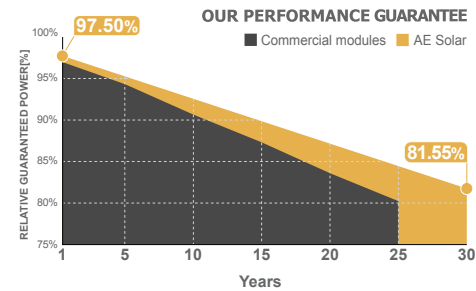
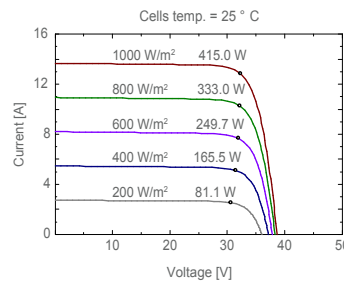
### Packaging information

|                         |                             |
|-------------------------|-----------------------------|
| Packaging configuration | 72 pcs / double pallets     |
| Loading capacity        | 936 pcs / 40 HQ             |
| Size / Pallet           | 1755 mm x 1140 mm x 2490 mm |
| Weight                  | 1572 kg / double pallets    |



### Temperature ratings

|  |            |
|--|------------|
| Operating temperature (°C)                   | -40 to +85 |
| Temp. coefficient of P <sub>max</sub> (%/°C) | -0.35      |
| Temp. coefficient of V <sub>oc</sub> (%/°C)  | -0.275     |
| Temp. coefficient of I <sub>sc</sub> (%/°C)  | 0.045      |
| Nom. operating temp. NOCT (°C)               | 45 ± 2     |



| Electrical specifications (STC*): |                       | AE395MD-108E | AE400MD-108E | AE405MD-108E | AE410MD-108E | AE415MD-108E |
|-----------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|
| Nominal Max. Power                | P <sub>max</sub> (Wp) | 395          | 400          | 405          | 410          | 415          |
| Maximum operating voltage         | V <sub>MPP</sub> (V)  | 31.08        | 31.35        | 31.62        | 31.88        | 32.12        |
| Maximum operating current         | I <sub>MPP</sub> (A)  | 12.71        | 12.76        | 12.81        | 12.86        | 12.92        |
| Open-circuit voltage              | V <sub>oc</sub> (V)   | 37.36        | 37.69        | 38.02        | 38.35        | 38.67        |
| Short-circuit current             | I <sub>sc</sub> (A)   | 13.47        | 13.52        | 13.57        | 13.62        | 13.67        |
| Module efficiency                 | η (%)                 | 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)

| Electrical specifications (NMOT*): |                       | AE395MD-108E | AE400MD-108E | AE405MD-108E | AE410MD-108E | AE415MD-108E |
|------------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|
| Nominal Max. Power                 | P <sub>max</sub> (Wp) | 298          | 301          | 304          | 308          | 311          |
| Maximum operating voltage          | V <sub>MPP</sub> (V)  | 29.30        | 29.50        | 29.70        | 29.90        | 30.10        |
| Maximum operating current          | I <sub>MPP</sub> (A)  | 10.17        | 10.21        | 10.25        | 10.29        | 10.34        |
| Open-circuit voltage               | V <sub>oc</sub> (V)   | 35.20        | 35.40        | 35.60        | 35.80        | 36.00        |
| Short-circuit current              | I <sub>sc</sub> (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)

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.

