AE HALF LARGE CELL MONOCRYSTALLINE PV MODULES
AE MD - 108 Series 390W - 410W

108 CELLS

- PID RESISTANT
- SALT CORROSION RESISTANT
- SAND RESISTANT
- AMMONIA RESISTANT
- HIGHLY STABLE AND TOUGH

GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

PLUS-SORTING
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.

PERFORMANCE GUARANTEE
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.

CERTIFICATES
Lining with international standards, AE Solar Photovoltaic modules are tested and certified under extreme stress conditions and it can bear harsh environment influences.

OUR PERFORMANCE GUARANTEE

30 years
Performance Guarantee

12 years
Product Warranty

Guaranteed Module Performance

- AE Solar
- Commercial Guarantee

0% 80% 85% 90% 95% 97%
1 5 10 15 20 25 30 Years

Deutsche Qualität Garantiert
**TECHNICAL DATA**

**AE MD - 108 Series 390W - 410W**

### SPECIFICATIONS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Nominal Max. Power Pmax (Wp)</td>
<td>390</td>
<td>395</td>
<td>400</td>
<td>405</td>
<td>410</td>
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<tr>
<td>Maximum power voltage Vmp(V)</td>
<td>30.81</td>
<td>31.08</td>
<td>31.35</td>
<td>31.62</td>
<td>31.88</td>
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<tr>
<td>Maximum power current Imp (A)</td>
<td>12.66</td>
<td>12.71</td>
<td>12.76</td>
<td>12.81</td>
<td>12.86</td>
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<tr>
<td>Open-circuit voltage Voc(V)</td>
<td>37.02</td>
<td>37.36</td>
<td>37.69</td>
<td>38.02</td>
<td>38.35</td>
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<tr>
<td>Short-circuit current Isc (A)</td>
<td>13.42</td>
<td>13.47</td>
<td>13.52</td>
<td>13.57</td>
<td>13.62</td>
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<tr>
<td>Module efficiency (%)</td>
<td>19.97</td>
<td>20.22</td>
<td>20.48</td>
<td>20.73</td>
<td>20.99</td>
</tr>
<tr>
<td>Operating temperature (°C)</td>
<td>-40 to +85</td>
<td></td>
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<tr>
<td>Maximum system voltage DC V (IEC)</td>
<td>1500</td>
<td></td>
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<tr>
<td>Maximum series fuse rating (A)</td>
<td>25</td>
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<tr>
<td>Power tolerance (%)</td>
<td>0 ~ +5</td>
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<tr>
<td>Temp. coefficients of Pmax (%/°C)</td>
<td>-0.350</td>
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<tr>
<td>Temp. coefficients of Voc (%/°C)</td>
<td>-0.275</td>
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<td>Temp. coefficients of Isc (%/°C)</td>
<td>0.045</td>
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<tr>
<td>Nom. Operating cell temp.(NOCT) (°C)</td>
<td>45±2</td>
<td></td>
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</tbody>
</table>

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with spectrum AM 1.5 and a cell temperature of 25°C.

### MATERIAL CHARACTERISTICS

- **Cell type**: Mono-crystalline 182 X 91 mm
- **No. of cells**: 108 Cells (54 Full Cells)
- **Dimensions**: 1724 X 1133 X 35 mm
- **Weight**: 21.5 kg
- **Junction box**: IP 68 rated (3 bypass diodes)
- **Output cable**: 1 x 4.0mm², 350 mm length or customised
- **Connector type**: MC4 / MC4 compatible
- **Hail resistance**: Max. Ø 25 mm, at 23 m/s
- **Wind load**: 2400 Pa / 244 kg/m²
- **Mechanical load**: 5400 Pa / 550 kg/m²

### PACKAGING INFORMATION

- **Packing configuration**: 62 pcs / double pallet
- **Loading Capacity**: 806 pcs / 40HQ
- **Size / pallet (mm)**: 1755 x 1140 x 2490 mm
- **Weight**: 1432kg /double pallet

### DIMENSIONS

![Diagram of solar panel dimensions](image)

### CERTIFICATES

- TÜV Rheinland
- IEC 61215
- IEC 61730
- Periodical Inspection
- SGS
- PID resistant
- Salt mist resistant
- Sand resistant
- Corrosive gas (NH3)
- CE
- CHUBB

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