**AE SMART HOT-SPOT FREE MONOCRystALLINE PV MODULES**

**AE HM6-72 Series 385W-400W**

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**72 CELLS**

**PID RESISTANT**

**SALT CORROSION RESISTANT**

**SAND RESISTANT**

**AMMONIA RESISTANT**

**HIGHLY STABLE AND TOUGH**

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**TEMPERATURE**

Hot spot temperature lower than 85°C
The IEC61215 test shows that with a zero percentage, a small and a 100 percentage of shaded area, respectively hot spots will not exceed 85°C, which is the maximum operating condition.

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**SAFETY**

Instantly reduced temperature, thus eliminating material hazard and ensuring more safety of the module, preventing fire risks caused by hot spots.

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**GERMAN QUALITY**

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

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**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.

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**RELIABILITY**

Bypass diodes prevent cells mismatching at shaded areas. The lower temperature of hot-spot free modules will eliminate potential cause for back sheet degradation, hence enhancing reliability for longer term.

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**HIGH RETURNS**

This new technology prevents instant falls in the module output, thus increasing the performance ratio up to 30% and return for all types of installations.

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**PLUS-SORTING**

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

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**CERTIFICATES**

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

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**OUR PERFORMANCE GUARANTEE**

- **AE Solar**
- **Commercial Guarantee**

![Bar Chart](chart.png)

<table>
<thead>
<tr>
<th>Years</th>
<th>1</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
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<tbody>
<tr>
<td>0%</td>
<td>90%</td>
<td>90%</td>
<td>90%</td>
<td>90%</td>
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<td>97%</td>
<td>97%</td>
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<tr>
<td>80%</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>85%</td>
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<tr>
<td>90%</td>
<td></td>
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<tr>
<td>95%</td>
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<tr>
<td>97%</td>
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<table>
<thead>
<tr>
<th>30 Years</th>
<th>Performance Guarantee</th>
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<tbody>
<tr>
<td>12 Years</td>
<td>Product Warranty</td>
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Deutsche Qualität Garantiert
## TECHNICAL DATA

### AE HM6-72 Series 385W-400W

### SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>AE385HM6-72</th>
<th>AE390HM6-72</th>
<th>AE395HM6-72</th>
<th>AE400HM6-72</th>
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<tbody>
<tr>
<td>Nominal Max. Power Pmax (Wp)</td>
<td>385</td>
<td>390</td>
<td>395</td>
<td>400</td>
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<tr>
<td>Maximum power voltage Voc (V)</td>
<td>40.80</td>
<td>41.10</td>
<td>41.40</td>
<td>41.71</td>
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<tr>
<td>Maximum power current Imp (A)</td>
<td>9.44</td>
<td>9.49</td>
<td>9.54</td>
<td>9.59</td>
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<tr>
<td>Open-circuit voltage Voc (V)</td>
<td>49.10</td>
<td>49.30</td>
<td>49.48</td>
<td>49.69</td>
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<tr>
<td>Short-circuit current Isc (A)</td>
<td>9.92</td>
<td>10.12</td>
<td>10.50</td>
<td>10.59</td>
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<td>Module efficiency (%)</td>
<td>19.14</td>
<td>19.38</td>
<td>19.63</td>
<td>19.88</td>
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<tr>
<td>Power tolerance Pmax (Wp)</td>
<td>0 / + 5</td>
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<td></td>
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<tr>
<td>Maximum system voltage DC (V)</td>
<td>1000</td>
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<tr>
<td>Maximum series fuse rating (A)</td>
<td>15</td>
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<tr>
<td>Operating temperature (°C)</td>
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<td>-40 to +85</td>
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<tr>
<td>Temp. coefficients of Pmax (%/°C)</td>
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<td>Temp. coefficients of Voc (%/°C)</td>
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<td>Temp. coefficients of Isc (%/°C)</td>
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<tr>
<td>Nom. Operating cell temp.(NOCT) (°C)</td>
<td>45±2</td>
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</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 158.75 x 158.75mm
- **No. of cells**: 72 (6 x 12)
- **Dimensions**: 2020 X 996 X 35 mm
- **Weight**: 21.5 kg
- **Junction box**: IP 67 rated
- **Output cable**: 1 x 4.0mm², 1200mm length or customised
- **Connector type**: MC 4 / MC 4 compatible
- **Hall resistance**: Max. Ø5 mm, at 23 m/s
- **Wind load**: 2400 Pa / 244 kg/m²
- **Mechanical load**: 5400 Pa / 550 kg/m²

### PACKAGING INFORMATION

- **Packing configuration**: 64 pcs / double pallet
- **Loading Capacity**: 704 pcs / 40HQ
- **Size / pallet (mm)**: 2050x1120x2395mm
- **Weight**: 1495 kg / double pallet

### DIMENSIONS

![Dimensions diagram](image)

### CERTIFICATES

- TÜV Rheinland®: Precisely Right.
- SGS: IEC 61215
- PID RESISTANT SALT MIST RESISTANT SAND RESISTANT CORROSIVE GAS (NHS)
- CE
- CHUBB

AES DSH210 V.02
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