AE SMART HOT-SPOT FREE
MONOCRystalline PV Modules
AE HM6-60 Series 320W-335W

**60 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.

**SAFETY**

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

**GERMAN QUALITY**

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

**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.

**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.

**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.

**PLUS-SORTING**

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

**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**

<table>
<thead>
<tr>
<th>Year</th>
<th>AE Solar</th>
<th>Commercial Guarantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>97%</td>
<td>95%</td>
</tr>
<tr>
<td>5</td>
<td>95%</td>
<td>93%</td>
</tr>
<tr>
<td>10</td>
<td>93%</td>
<td>91%</td>
</tr>
<tr>
<td>15</td>
<td>91%</td>
<td>89%</td>
</tr>
<tr>
<td>20</td>
<td>89%</td>
<td>87%</td>
</tr>
<tr>
<td>25</td>
<td>87%</td>
<td>85%</td>
</tr>
<tr>
<td>30</td>
<td>85%</td>
<td>83%</td>
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</table>

30 years Performance Guarantee
12 years Product Warranty
## TECHNICAL DATA

### AE HM6-60 Series 320W-335W

<table>
<thead>
<tr>
<th>Specification</th>
<th>AE320HM6-60</th>
<th>AE325HM6-60</th>
<th>AE330HM6-60</th>
<th>AE335HM6-60</th>
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</thead>
<tbody>
<tr>
<td>Nominal Max. Power (Pmax Wp)</td>
<td>320</td>
<td>325</td>
<td>330</td>
<td>335</td>
</tr>
<tr>
<td>Maximum power voltage (Vmp V)</td>
<td>33.40</td>
<td>33.61</td>
<td>33.81</td>
<td>34.02</td>
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<tr>
<td>Maximum power current (Imp A)</td>
<td>9.59</td>
<td>9.68</td>
<td>9.76</td>
<td>9.85</td>
</tr>
<tr>
<td>Open-circuit voltage (Voc V)</td>
<td>40.90</td>
<td>41.10</td>
<td>41.31</td>
<td>41.49</td>
</tr>
<tr>
<td>Short-circuit current (Isc A)</td>
<td>10.15</td>
<td>10.20</td>
<td>10.37</td>
<td>10.49</td>
</tr>
<tr>
<td>Module efficiency (%)</td>
<td>19.01</td>
<td>19.31</td>
<td>19.61</td>
<td>19.90</td>
</tr>
<tr>
<td>Power tolerance (Pmax Wp)</td>
<td>0 / + 5</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum system voltage DC (V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum series fuse rating (A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Operating temperature (°C)</td>
<td></td>
<td></td>
<td>-40 to +85</td>
<td></td>
</tr>
<tr>
<td>Temp. coefficients of Pmax (%/°C)</td>
<td></td>
<td></td>
<td>-0.37</td>
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<tr>
<td>Temp. coefficients of Voc (%/°C)</td>
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<td>-0.28</td>
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<tr>
<td>Temp. coefficients of Isc (%/°C)</td>
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<td>0.048</td>
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<tr>
<td>Nom. Operating cell temp. (NOCT) (°C)</td>
<td></td>
<td></td>
<td>45±2</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 158.75 x 158.75mm
- **No. of cells**: 60 (6 x 10)
- **Dimensions**: 1690 x 996 x 35 mm
- **Weight**: 19.0 kg
- **Junction box**: IP 67 rated
- **Output cable**: 1 x 4.0mm², 900mm length or customised
- **Connector type**: MC 4 / MC 4 compatible
- **Hail resistance**: Max. Ø 28 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**: 832 pcs / 40HQ
- **Size / pallet (mm)**: 1725 X 1135 X 2395mm
- **Weight**: 1315 kg / double pallet

## DIMENSIONS

![Diagram](image.png)

CERTIFICATES

- TÜV Rheinland
- IEC 61215
- IEC 61701 PERIODICAL INSPECTION
- PID RESISTANT SALT MIST RESISTANT SAND RESISTANT CORROSIVE GAS (NHS)
- CE
- CHUBB

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