PERC Technology

AE LARGE CELL
MONOCRYSTALLINE PV MODULES
AE HM6-60 Series 315W-335W

**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**

![Graph showing performance guarantee over 30 years](image)
**TECHNICAL DATA**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>AE315HM6-60</th>
<th>AE320HM6-60</th>
<th>AE325HM6-60</th>
<th>AE330HM6-60</th>
<th>AE335HM6-60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Max. Power Pmax (Wp)</td>
<td>315</td>
<td>320</td>
<td>325</td>
<td>330</td>
<td>335</td>
</tr>
<tr>
<td>Maximum power voltage Vmp(V)</td>
<td>33.20</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>9.49</td>
<td>9.59</td>
<td>9.68</td>
<td>9.76</td>
<td>9.85</td>
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<tr>
<td>Open-circuit voltage Voc(V)</td>
<td>40.70</td>
<td>40.90</td>
<td>41.10</td>
<td>41.31</td>
<td>41.49</td>
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<tr>
<td>Short-circuit current Isc (A)</td>
<td>10.04</td>
<td>10.15</td>
<td>10.20</td>
<td>10.37</td>
<td>10.49</td>
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<tr>
<td>Module efficiency (%)</td>
<td>18.99</td>
<td>19.30</td>
<td>19.60</td>
<td>19.90</td>
<td>20.20</td>
</tr>
<tr>
<td>Power tolerance Pmax (Wp)</td>
<td>0 / + 5</td>
<td></td>
<td></td>
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<tr>
<td>Maximum system voltage DC (V)</td>
<td>1000</td>
<td></td>
<td></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>
<td>-40 to +85</td>
<td></td>
<td></td>
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<tr>
<td>Temp. coefficients of Pmax (%) / °C</td>
<td>-0.37</td>
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<tr>
<td>Temp. coefficients of Voc (%) / °C</td>
<td>-0.28</td>
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<td>Temp. coefficients of Isc (%) / °C</td>
<td>0.048</td>
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<tr>
<td>Nom. Operating cell temp. (NOCT) (°C)</td>
<td>45±2</td>
<td></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 158.75 x 158.75mm
- No. of cells: 60 (6 x 10)
- Dimensions: 1665 x 996 x 35 MM
- Weight: 18.5 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: 896 pcs / 40HQ
- Size / pallet (mm): 1695 X 1135 X 2395mm
- Weight: 1283 KG / double pallet

**DIMENSIONS**

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**CERTIFICATES**

- TÜV Rheinland
- SGS
- CE
- CHUBB

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