305 Watt
PERC - MONOCRYSTALLINE SOLAR MODULE
AE6H310WB5B • AE6H305WB5B • AE6H300WB5B

Features

- High module conversion efficiency
  18.9%
  Module efficiency up to 18.9% achieved through advanced cell technology and manufacturing capabilities

- Positive tolerance
  0/+5%
  Positive tolerance of up to 5% delivers higher output reliability

- Anchor current sorting process
  2%
  System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage

- Extended wind and snow load tests
  Modules certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *

- Withstanding harsh environment
  Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

Certifications and standards:
IEC 61215, IEC 61730
IEC 62804, IEC 62716, IEC 61701

Trust Anchor to Deliver Reliable Performance Over Time
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing testing: IEC 61701, IEC 62716, DIN EN 60068-2-68)***
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules

Industry-leading Warranty based on nominal power

- 97.5% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from MODULE’s nominal power output per year, ending with the 80.7% in the 25th year after the defined WARRANTY STARTING DATE.****
- 12-year product warranty
- 25-year linear performance warranty

Advanced PERC Technology
The cell uses back surface passivation and local BSF technology, which can improve cell efficiency by a large margin.

IP68 Rated Junction Box
The Anchor IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

* Please refer to Anchor Standard Module Installation Manual for details.
**WEEE only for EU market.
*** Please refer to Anchor Product Near-coast Installation Manual for details.
**** Please refer to Anchor Product Warranty for details.

www.anchor-world.com
### Electrical Characteristics

<table>
<thead>
<tr>
<th>STC</th>
<th>AE6H310 WBSB</th>
<th>AE6H305 WBSB</th>
<th>AE6H300 WBSB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power at STC (Pmax)</td>
<td>310 W</td>
<td>305 W</td>
<td>300 W</td>
</tr>
<tr>
<td>Optimum Operating Voltage (Vmp)</td>
<td>33.1 V</td>
<td>32.8 V</td>
<td>32.5 V</td>
</tr>
<tr>
<td>Optimum Operating Current (Imp)</td>
<td>9.37 A</td>
<td>9.30 A</td>
<td>9.23 A</td>
</tr>
<tr>
<td>Open Circuit Voltage ( Voc )</td>
<td>40.2 V ±5%</td>
<td>39.8 V ±5%</td>
<td>39.6 V ±5%</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>9.87 A ±5%</td>
<td>9.80 A ±5%</td>
<td>9.72 A ±5%</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>18.0%</td>
<td>18.6%</td>
<td>18.3%</td>
</tr>
<tr>
<td>Operating Module Temperature</td>
<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Maximum System Voltage</td>
<td>1000 V DC (IEC)</td>
<td>1000 V DC (IEC)</td>
<td>1000 V DC (IEC)</td>
</tr>
<tr>
<td>Maximum Series Fuse Rating</td>
<td>20 A</td>
<td>20 A</td>
<td>20 A</td>
</tr>
<tr>
<td>Power Tolerance</td>
<td>0/15 W</td>
<td>0/15 W</td>
<td>0/15 W</td>
</tr>
</tbody>
</table>

**Notes:**
- STC: Standard Test Conditions.
- NOCT: Normalized Operating Cell Temperature.
- MPP: Maximum Power Point.

### Temperature Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Operating Cell Temperature (NOCT)</td>
<td>42°C ±2°C</td>
</tr>
<tr>
<td>Temperature Coefficient of Pmax</td>
<td>-0.39%/°C</td>
</tr>
<tr>
<td>Temperature Coefficient of Voc</td>
<td>-0.34%/°C</td>
</tr>
<tr>
<td>Temperature Coefficient of Isc</td>
<td>0.060%/°C</td>
</tr>
</tbody>
</table>

### Mechanical Characteristics

- **Solar Cell:** Monocrystalline silicon 6 inches
- **No. of Cells:** 60 (6 x 10)
- **Dimensions:** 1650 x 992 x 35mm (64.96 x 39.1 x 1.4 inches)
- **Weight:** 18.3 kgs (40.3 lbs)
- **Front Glass:** 3.2 mm (0.13 inches) tempered glass
- **Frame:** Anodized aluminum alloy
- **Junction Box:** IP68 rated (3 bypass diodes)
- **Output Cables:** 4.0 mm² (0.06 inches²), symmetrical lengths (-1) 1000 mm (39.4 inches) and (+1) 1000 mm (39.4 inches)
- **Connectors:** MC4 compatible

### Packing Configuration

<table>
<thead>
<tr>
<th>Container</th>
<th>20’ GP</th>
<th>40’ HC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pieces per pallet</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Pallets per container</td>
<td>160</td>
<td>840</td>
</tr>
<tr>
<td>Pieces per container</td>
<td></td>
<td></td>
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</tbody>
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Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications mentioned are in accordance with standard EN 50606. Color differences of the modules relative to the figures as well as disconnections of the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

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