**HiPro Series**

**120-CELL HALF CUT POLYCRYSTALLINE SOLAR MODULE**

**285-305 Watt**

STPXXX - A60/Wfh

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**Features**

- **High power output**
  Compared to normal module, the power output can increase 5W-10W

- **High PID resistant**
  Advanced cell technology and qualified materials lead to high resistance to PID

- **Excellent weak light performance**
  More power output in weak light condition, such as haze, cloudy, and morning

- **Extended load tests**
  Module certified to withstand front side maximum static test load (5400 Pascal) and rear side maximum static test loads (3800 Pascal) *

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

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**Trust Suntech 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

**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

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**Special Cell Design**

The unique cell design leads to reduced electrodes resistance and smaller current, thus enables higher fill factor. Meanwhile, it can reduce losses of mismatch and cell wear, and increase total reflection.

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**IP68 Rated Junction Box**

The Suntech 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.

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* Please refer to Suntech Standard Module Installation Manual for details.
** Please refer to Suntech Product Warranty for details.
**** Please refer to Suntech Product Warranty for details.
### Electrical Characteristics

<table>
<thead>
<tr>
<th>STC</th>
<th>STPXXX-A60/Wfh</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Power at STC (Pmax)</strong></td>
<td>305 W</td>
</tr>
<tr>
<td><strong>Optimum Operating Voltage (Vmp)</strong></td>
<td>32.7 V</td>
</tr>
<tr>
<td><strong>Open Circuit Voltage (Voc)</strong></td>
<td>39.4 V</td>
</tr>
<tr>
<td><strong>Short Circuit Current (Isc)</strong></td>
<td>9.75 A</td>
</tr>
<tr>
<td><strong>Module Efficiency</strong></td>
<td>18.1%</td>
</tr>
</tbody>
</table>

**Operating Module Temperature:** -40 °C to +85 °C

### Temperature Characteristics

| **Nominal Module Operating Temperature (NMOT)** | 42 ± 2 °C |
| **Temperature Coefficient of Pmax** | -0.38%/°C |
| **Temperature Coefficient of Voc** | -0.321%/°C |
| **Temperature Coefficient of Isc** | 0.050%/°C |

### Mechanical Characteristics

- **Solar Cell:** Polycrystalline silicon 158.75 mm
- **No. of Cells:** 120 (6 × 20)
- **Dimensions:** 1684 × 1002 × 35 mm (66.3 × 39.4 × 1.4 inches)
- **Weight:** 19.0 kgs (41.9 lbs.)
- **Frame:** Anodized aluminum alloy
- **Junction Box:** IP68 rated (3 bypass diodes)
- **Output Cables:** 4.0 mm², Portrait: (-)350 mm and (+)160 mm in length, Landscape: (-)1200 mm and (+)1200 mm in length or customized length
- **Connectors:** 1000 V: MC4 compatible, 1500 V: MC4 EVO2, Cable 01S

### 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>31</td>
<td>31</td>
</tr>
<tr>
<td>Pallets per container</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Pieces per container</td>
<td>186</td>
<td>806</td>
</tr>
<tr>
<td>Packaging box dimensions</td>
<td>1736 × 1130 × 1166 mm</td>
<td></td>
</tr>
<tr>
<td>Packaging box weight</td>
<td>625 kg</td>
<td></td>
</tr>
</tbody>
</table>

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 may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

**Customer Service Hot Line:** +86 400 8888 009    **Fax:** +86 510 8534 3321

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**Hazardous electricity can shock, burn or cause death. Do not touch terminals.**

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**Wuxi.Suntech Power Co.Ltd**

**Made in China**

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