AS-6P30
270W~300W
POLYCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 18.44% through innovative five busbar cell technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 3600Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Positive power tolerance of 0 ~ +3 %.

CERTIFICATIONS

- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC, ETL(USA), JET(Japan), J-PEC(Japan), KS(South Korea), BIS(India), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.

Passionately committed to delivering innovative energy solution
ELECTRICAL CHARACTERISTICS AT STC

<table>
<thead>
<tr>
<th>Parameter</th>
<th>270W</th>
<th>275W</th>
<th>280W</th>
<th>285W</th>
<th>290W</th>
<th>295W</th>
<th>300W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power (P&lt;sub&gt;max&lt;/sub&gt;)</td>
<td>270W</td>
<td>275W</td>
<td>280W</td>
<td>285W</td>
<td>290W</td>
<td>295W</td>
<td>300W</td>
</tr>
<tr>
<td>Open Circuit Voltage (V&lt;sub&gt;OC&lt;/sub&gt;)</td>
<td>38.4V</td>
<td>38.6V</td>
<td>38.8V</td>
<td>39.0V</td>
<td>39.2V</td>
<td>39.4V</td>
<td>39.6V</td>
</tr>
<tr>
<td>Voltage at Maximum Power (V&lt;sub&gt;MP&lt;/sub&gt;)</td>
<td>31.2V</td>
<td>31.4V</td>
<td>31.6V</td>
<td>31.8V</td>
<td>32.0V</td>
<td>32.2V</td>
<td>32.4V</td>
</tr>
<tr>
<td>Current at Maximum Power (I&lt;sub&gt;MP&lt;/sub&gt;)</td>
<td>8.66A</td>
<td>8.76A</td>
<td>8.87A</td>
<td>8.97A</td>
<td>9.07A</td>
<td>9.17A</td>
<td>9.26A</td>
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<tr>
<td>Module Efficiency (%)</td>
<td>16.60</td>
<td>16.90</td>
<td>17.21</td>
<td>17.52</td>
<td>17.83</td>
<td>18.13</td>
<td>18.44</td>
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<tr>
<td>Operating Temperature</td>
<td>-40°C to +85°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Maximum System Voltage</td>
<td>1000V DC/1500V DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Fire Resistance Rating</td>
<td>Type 1 (in accordance with UL 1703)/Class C (IEC 61730)</td>
<td></td>
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<tr>
<td>Maximum Series Fuse Rating</td>
<td>15A</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>200W</th>
<th>204W</th>
<th>207W</th>
<th>211W</th>
<th>215W</th>
<th>218W</th>
<th>222W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power (P&lt;sub&gt;max&lt;/sub&gt;)</td>
<td>200W</td>
<td>204W</td>
<td>207W</td>
<td>211W</td>
<td>215W</td>
<td>218W</td>
<td>222W</td>
</tr>
<tr>
<td>Open Circuit Voltage (V&lt;sub&gt;OC&lt;/sub&gt;)</td>
<td>35.3V</td>
<td>35.5V</td>
<td>35.7V</td>
<td>35.9V</td>
<td>36.1V</td>
<td>36.3V</td>
<td>36.5V</td>
</tr>
<tr>
<td>Short Circuit Current (I&lt;sub&gt;SC&lt;/sub&gt;)</td>
<td>7.41A</td>
<td>7.50A</td>
<td>7.59A</td>
<td>7.68A</td>
<td>7.77A</td>
<td>7.86A</td>
<td>7.94A</td>
</tr>
<tr>
<td>Voltage at Maximum Power (V&lt;sub&gt;MP&lt;/sub&gt;)</td>
<td>28.4V</td>
<td>28.6V</td>
<td>28.8V</td>
<td>29.0V</td>
<td>29.2V</td>
<td>29.4V</td>
<td>29.6V</td>
</tr>
<tr>
<td>Current at Maximum Power (I&lt;sub&gt;MP&lt;/sub&gt;)</td>
<td>7.05A</td>
<td>7.14A</td>
<td>7.19A</td>
<td>7.28A</td>
<td>7.37A</td>
<td>7.42A</td>
<td>7.50A</td>
</tr>
</tbody>
</table>

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS

- Cell type: Polycrystalline 6inch
- Number of cells: 60 (6x10)
- Module dimensions: 1640x992x35mm (64.57x39.06x1.38inches)
- Weight: 17.5kg (38.6lbs)
- Front cover: 3.2mm (0.13inches) tempered glass with AR coating
- Frame: Anodized aluminum alloy
- Junction box: IP67, 3 diodes
- Cable: 4mm² (0.006inches²), 900mm (35.43inches)
- Connector: MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS

- Nominal Operating Cell Temperature (NOCT): 45°C±2°C
- Temperature Coefficients of P<sub>max</sub>: 0.39%/°C
- Temperature Coefficients of V<sub>OC</sub>: 0.30%/°C
- Temperature Coefficients of I<sub>SC</sub>: 0.05%/°C

PACKAGING

- Standard packaging: 30pcs/pallet
- Module quantity per 20’ container: 360pcs
- Module quantity per 40’ container: 840pcs(GP)/924pcs(HQ)

ENGINEERING DRAWINGS

- Rear View
- Section A-A

Specifications in this datasheet are subject to change without prior notice.

IV CURVES

- Current-Voltage and Power-Voltage Curves at Different Irradiances
- Current-Voltage Curves at Different Temperatures

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