AS-6P30

POLYCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 17.52% by using high efficient solar cells and advanced manufacturing 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 2400Pa 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

- IEC61215, IEC61730, IEC62716, IEC61701, CE, CQC, CGC, ETL(USA), JET(Japan), J-PEC(Japan), Kemco(South Korea), KS(South Korea), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Isreal), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: 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>250W</th>
<th>255W</th>
<th>260W</th>
<th>265W</th>
<th>270W</th>
<th>275W</th>
<th>280W</th>
<th>285W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power ($P_{max}$)</td>
<td>250W</td>
<td>255W</td>
<td>260W</td>
<td>265W</td>
<td>270W</td>
<td>275W</td>
<td>280W</td>
<td>285W</td>
</tr>
<tr>
<td>Open Circuit Voltage ($V_{oc}$)</td>
<td>38.0V</td>
<td>38.1V</td>
<td>38.2V</td>
<td>38.3V</td>
<td>38.4V</td>
<td>38.5V</td>
<td>38.6V</td>
<td>38.7V</td>
</tr>
<tr>
<td>Short Circuit Current ($I_{sc}$)</td>
<td>8.75A</td>
<td>8.83A</td>
<td>8.90A</td>
<td>8.98A</td>
<td>9.09A</td>
<td>9.20A</td>
<td>9.31A</td>
<td>9.42A</td>
</tr>
<tr>
<td>Voltage at Nominal Power ($V_{mp}$)</td>
<td>30.3V</td>
<td>30.5V</td>
<td>30.7V</td>
<td>30.9V</td>
<td>31.1V</td>
<td>31.3V</td>
<td>31.5V</td>
<td>31.7V</td>
</tr>
<tr>
<td>Current at Nominal Power ($I_{mp}$)</td>
<td>8.26A</td>
<td>8.37A</td>
<td>8.47A</td>
<td>8.58A</td>
<td>8.69A</td>
<td>8.79A</td>
<td>8.89A</td>
<td>9.00A</td>
</tr>
<tr>
<td>Module Efficiency (%)</td>
<td>15.37</td>
<td>15.67</td>
<td>15.98</td>
<td>16.29</td>
<td>16.60</td>
<td>16.90</td>
<td>17.21</td>
<td>17.52</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +85°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum System Voltage</td>
<td>1000V DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Resistance Rating</td>
<td>Type 1 (in accordance with UL1703)/Class C(IEC61730)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Series Fuse Rating</td>
<td>15A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<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>184W</th>
<th>188W</th>
<th>191W</th>
<th>195W</th>
<th>199W</th>
<th>202W</th>
<th>206W</th>
<th>210W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power ($P_{max}$)</td>
<td>184W</td>
<td>188W</td>
<td>191W</td>
<td>195W</td>
<td>199W</td>
<td>202W</td>
<td>206W</td>
<td>210W</td>
</tr>
<tr>
<td>Open Circuit Voltage ($V_{oc}$)</td>
<td>35.0V</td>
<td>35.1V</td>
<td>35.2V</td>
<td>35.3V</td>
<td>35.4V</td>
<td>35.5V</td>
<td>35.6V</td>
<td>35.7V</td>
</tr>
<tr>
<td>Short Circuit Current ($I_{sc}$)</td>
<td>7.09A</td>
<td>7.15A</td>
<td>7.21A</td>
<td>7.27A</td>
<td>7.36A</td>
<td>7.45A</td>
<td>7.54A</td>
<td>7.63A</td>
</tr>
<tr>
<td>Voltage at Nominal Power ($V_{mp}$)</td>
<td>27.6V</td>
<td>27.8V</td>
<td>27.9V</td>
<td>28.1V</td>
<td>28.3V</td>
<td>28.5V</td>
<td>28.7V</td>
<td>28.9V</td>
</tr>
<tr>
<td>Current at Nominal Power ($I_{mp}$)</td>
<td>6.67A</td>
<td>6.77A</td>
<td>6.85A</td>
<td>6.94A</td>
<td>7.04A</td>
<td>7.09A</td>
<td>7.18A</td>
<td>7.27A</td>
</tr>
</tbody>
</table>

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

### MECHANICAL CHARACTERISTICS

- **Cell type**: Polycrystalline 156x156mm (6x6 inches)
- **Number of cells**: 60 (6x10)
- **Module dimensions**: 1640x992x40mm (64.57x39.06x1.57 inches)
- **Weight**: 18.5kg (40.8lbs)
- **Front cover**: 3.2mm (0.13 inches) tempered glass with AR coating
- **Frame**: Anodized aluminum alloy
- **Junction box**: IP67, 3 diodes
- **Cable**: 4mm² (0.06 inches³), 900mm (35.43 inches)
- **Connector**: MC4 or MC4 compatible

### TEMPERATURE CHARACTERISTICS

- **Nominal Operating Cell Temperature (NOCT)**: 45°C±2°C
- **Temperature Coefficients of $P_{max}$**: -0.41%/°C
- **Temperature Coefficients of $V_{oc}$**: -0.31%/°C
- **Temperature Coefficients of $I_{sc}$**: 0.05%/°C

### PACKAGING

- **Standard packaging**: 26pcs/pallet
- **Module quantity per 20’ container**: 312pcs
- **Module quantity per 40’ container**: 728pcs(GP)/784pcs(HQ)

### IV CURVES

Current-Voltage and Power-Voltage Curves at Different Irradiances

Current-Voltage Curves at Different Temperatures

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