**KEY FEATURES**

- **10BB Half-cut Cell Technology**
  New circuit design, lower internal current, lower Rs loss
  Ga dopped wafer, attenuation $< 2\%$ (1st year)/ $\leq 0.55\%$ (Linear)

- **Industry Leading High Yield**
  Bifacial PERC cell technology,
  5%-25% more yield depends on different conditions

- **Excellent Anti-PID Performance**
  2 times of industry standard Anti-PID test by TUV SUD

- **IP68 Junction Box**
  High waterproof level

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**SYSTEM & PRODUCT CERTIFICATES**

- IEC 61215 / IEC 61730 / UL 61703
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System

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**PERFORMANCE WARRANTY**

- 12 Years Quality Assurance
- 25 Years Power Output Guarantee

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**Guaranteed Power**

- **Linear Performance Warranty**
  - Year 1: 98.8%
  - Year 5: 98%
  - Year 10: 96.8%
  - Year 15: 95.3%
  - Year 20: 93.8%
  - Year 25: 92.4%

- **Standard Performance Warranty**
  - Year 1: 98.8%
  - Year 5: 97.8%
  - Year 10: 96.8%
  - Year 15: 95.3%
  - Year 20: 93.8%
  - Year 25: 92.4%

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**390 - 410W**

Bifacial Module With Transparent Backsheet
10BB Half-cut Mono Perc
**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Testing Condition</th>
<th>STC</th>
<th>NMOT</th>
<th>STC</th>
<th>NMOT</th>
<th>STC</th>
<th>NMOT</th>
<th>STC</th>
<th>NMOT</th>
<th>STC</th>
<th>NMOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power (Pmax/W)</td>
<td>390</td>
<td>291</td>
<td>395</td>
<td>294</td>
<td>400</td>
<td>298</td>
<td>405</td>
<td>302</td>
<td>410</td>
<td>304</td>
</tr>
<tr>
<td>Operating Voltage (Vmppp/V)</td>
<td>30.65</td>
<td>28.6</td>
<td>30.85</td>
<td>28.8</td>
<td>31.05</td>
<td>29.0</td>
<td>31.24</td>
<td>29.2</td>
<td>31.43</td>
<td>29.3</td>
</tr>
<tr>
<td>Operating Current (Imppp/A)</td>
<td>12.73</td>
<td>10.18</td>
<td>12.81</td>
<td>10.23</td>
<td>12.89</td>
<td>10.30</td>
<td>12.97</td>
<td>10.36</td>
<td>13.05</td>
<td>10.42</td>
</tr>
<tr>
<td>Open-Circuit Voltage (Voc/V)</td>
<td>36.50</td>
<td>34.4</td>
<td>36.75</td>
<td>34.6</td>
<td>37.00</td>
<td>34.8</td>
<td>37.25</td>
<td>35.1</td>
<td>37.50</td>
<td>35.3</td>
</tr>
<tr>
<td>Module Efficiency (%)</td>
<td>20.00</td>
<td>20.20</td>
<td>20.50</td>
<td>20.70</td>
<td>21.00</td>
<td>21.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25°C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%
NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

**REAR SIDE POWER GAIN (REFERENCE TO 410W FRONT)**

<table>
<thead>
<tr>
<th>Pmax gain</th>
<th>5%</th>
<th>10%</th>
<th>15%</th>
<th>20%</th>
<th>25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pmax/W</td>
<td>431</td>
<td>451</td>
<td>472</td>
<td>492</td>
<td>513</td>
</tr>
<tr>
<td>Vmppp/V</td>
<td>31.43</td>
<td>31.43</td>
<td>31.43</td>
<td>31.43</td>
<td>31.43</td>
</tr>
<tr>
<td>Imppp/A</td>
<td>13.70</td>
<td>14.36</td>
<td>15.01</td>
<td>15.66</td>
<td>16.31</td>
</tr>
<tr>
<td>Voc/V</td>
<td>37.50</td>
<td>37.50</td>
<td>37.50</td>
<td>37.50</td>
<td>37.50</td>
</tr>
<tr>
<td>Isc/A</td>
<td>14.65</td>
<td>15.35</td>
<td>16.04</td>
<td>16.74</td>
<td>17.44</td>
</tr>
</tbody>
</table>

**MECHANICAL CHARACTERISTICS**

Solar Cell: Monocrystalline 182*182mm
No. of Cells: 108 (4*18)
Module Dimensions: 1722*1134*30mm (67.80*44.65*1.18inches)
Weight: 21.5kg (47.4lbs.)
Front Glass: 3.2mm AR Coating Tempered Glass
Frame: Anodized Aluminium Alloy
Junction Box: IP68, 3 Bypass Diodes
Output Cables: 4mm² (IEC), 12AWG(UL)
300mm in Length or Customized Length
Connectors: T01/LJQ-3-C5/MC4/MC4-EVO2

**APPLICATION CONDITIONS**

Maximum System Voltage: 1000V/1500VDC/(IEC)
Operating Temperature: -40°C~+85°C
Maximum Series Fuse: 30A
Safety Protection Class: Class II
Mechanical Load: Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor: 70% (+5%--10%)

**TEMPERATURE CHARACTERISTICS**

- Temperature Coefficient of Pmax: -0.35%/°C
- Temperature Coefficient of Voc: -0.26%/°C
- Temperature Coefficient of Isc: +0.048%/°C
- Nominal Module Operating Temperature(NMOT): 43±2°C

**PACKING CONFIGURATION**

- Pieces Per Pallet: 36
- Pieces Per Container(40’HQ): 936

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