As a leading global manufacturer of next generation photovoltaic products, we believe close cooperation with our partners is critical to success. With local presence around the globe, Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners as the backbone of our shared success in driving Smart Energy Together.

Trina Solar Limited
www.trinasolar.com
THE DUOMAX MODULE

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.© 2016 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.

**THE DIMENSIONS OF PV MODULE**

**ELECTRICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Peak Power Watts-P_{MAX} (Wp)*</th>
<th>310</th>
<th>315</th>
<th>320</th>
<th>325</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output Tolerance-P_{MAX} (W)</td>
<td>0 ~ +5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage-V_{MAX} (V)</td>
<td>36.8</td>
<td>37.0</td>
<td>37.2</td>
<td>37.4</td>
</tr>
<tr>
<td>Maximum Power Current-I_{MAX} (A)</td>
<td>8.42</td>
<td>8.51</td>
<td>8.60</td>
<td>8.69</td>
</tr>
<tr>
<td>Open Circuit Voltage-V_{OC} (V)</td>
<td>45.6</td>
<td>45.7</td>
<td>45.9</td>
<td>46.1</td>
</tr>
<tr>
<td>Short Circuit Current-I_{SC} (A)</td>
<td>8.91</td>
<td>8.99</td>
<td>9.07</td>
<td>9.14</td>
</tr>
<tr>
<td>Module Efficiency ηm (%)</td>
<td>15.8</td>
<td>16.1</td>
<td>16.3</td>
<td>16.6</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA (NOCT)**

<table>
<thead>
<tr>
<th>Maximum Power-P_{MAX} (Wp)</th>
<th>230</th>
<th>234</th>
<th>238</th>
<th>241</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power Voltage-V_{MAX} (V)</td>
<td>34.1</td>
<td>34.3</td>
<td>34.4</td>
<td>34.7</td>
</tr>
<tr>
<td>Maximum Power Current-I_{MAX} (A)</td>
<td>6.75</td>
<td>6.82</td>
<td>6.92</td>
<td>6.94</td>
</tr>
<tr>
<td>Open Circuit Voltage-V_{OC} (V)</td>
<td>42.3</td>
<td>42.4</td>
<td>42.6</td>
<td>42.6</td>
</tr>
<tr>
<td>Short Circuit Current-I_{SC} (A)</td>
<td>7.20</td>
<td>7.26</td>
<td>7.32</td>
<td>7.38</td>
</tr>
</tbody>
</table>

**MECHANICAL DATA**

- **Solar Cells**: Multicrystalline 156 × 156 mm (6 inches)
- **Cell Orientation**: 72 cells (6 × 12)
- **Module Dimensions**:
  - Portrait: 1978 × 992 × 6 mm (77.9 x 39.1 x 0.236 inches)
  - Landscape: 1984 × 998 × 7.6 mm with corner (78.1 x 39.3 x 0.299 inches)
  - Landscape: 1984 × 998 × 25 mm with corner and junction box (78.1 x 39.3 x 0.984 inches)
- **Weight**: 28 kg (62 lb)
- **Front Glass**: 2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
- **EVA**: White
- **Back Glass**: 2.5 mm (0.10 inches), Heat Strengthened Glass
- **Frame**: Frameless
- **J-Box**: IP 67 rated or IP 68 rated
- **Cables**: Photovoltaic Technology Cable 4.0 mm² (0.006 inches²)
  - Portrait: 140/285 mm (5.5/11.2 inches)
  - Landscape: 1400/1400 mm (55.1/55.1 inches)
- **Connector**: MC4 or Amphenol H4/UTX (1500V)
- **Fire Type**: Type 13

**TEMPERATURE RATINGS**

- Nominal Operating Cell Temperature (NOCT): 44°C ±2°C
- Temperature Coefficient of P_{MAX}: -0.41%/°C
- Temperature Coefficient of V_{OC}: -0.32%/°C
- Temperature Coefficient of I_{SC}: 0.05%/°C

**MAXIMUM RATINGS**

- Operational Temperature: -40~+85°C
- Maximum System Voltage: 1500V DC (IEC) 1000V DC (UL)
- Max Series Fuse Rating: 15A

**WARRANTY**

- 10 year Product Workmanship Warranty
- 30 year Linear Power Warranty

(Please refer to product warranty for details)

**PACKAGING CONFIGURATION**

- Modules per box: 30 pieces
- Modules per 40’ container: 660 pieces

*Measuring tolerance: ±3%.

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5.

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

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