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.

Excellent low light performance on cloudy days, mornings and evenings
- Advanced surface texturing
- Back surface field
- Selective emitter

Ideal for large scale installations
- High power footprint reduces installation time and BOS costs

Highly reliable due to stringent quality control
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements

Certified to withstand challenging environmental conditions
- 2400 Pa wind load
- 5400 Pa snow load per module
- 25 mm hail stones at 82 km/hr

Trina Solar Limited
www.trinasolar.com

Trina Solar
Smart Energy Together
CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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**ELECTRICAL DATA @ NOCT**

<table>
<thead>
<tr>
<th>Module</th>
<th>TSM-300 PC14A</th>
<th>TSM-305 PC14A</th>
<th>TSM-310 PC14A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power-P&lt;sub&gt;MAX&lt;/sub&gt; (Wp)</td>
<td>219</td>
<td>223</td>
<td>226</td>
</tr>
<tr>
<td>Maximum Power Voltage-V&lt;sub&gt;MPV&lt;/sub&gt; (V)</td>
<td>32.3</td>
<td>32.7</td>
<td>32.9</td>
</tr>
<tr>
<td>Maximum Power Current-I&lt;sub&gt;MPV&lt;/sub&gt; (A)</td>
<td>6.77</td>
<td>6.81</td>
<td>6.86</td>
</tr>
<tr>
<td>Open Circuit Voltage-V&lt;sub&gt;OC&lt;/sub&gt; (V)</td>
<td>41.5</td>
<td>41.8</td>
<td>42.0</td>
</tr>
<tr>
<td>Short Circuit Current-I&lt;sub&gt;SC&lt;/sub&gt; (A)</td>
<td>7.03</td>
<td>7.06</td>
<td>7.15</td>
</tr>
</tbody>
</table>

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

**MECHANICAL DATA**

- Solar cells: Multicrystalline 156 × 156 mm
- Cell orientation: 72 cells (6 × 12)
- Module dimensions: 1956 × 992 × 40 mm
- Weight: 27.6 kg
- Glass: High transparency solar glass 4.0 mm
- Backsheet: White
- Frame: Silver Anodized Aluminium Alloy
- J-Box: IP 67 rated
- Cables: Photovoltaic Technology cable 4.0 mm², 1250 mm
- Connector: Original MC4

**TEMPERATURE RATINGS**

- Nominal Operating Cell Temperature (NOCT): 44°C [±2°C]
- Temperature Coefficient of P<sub>MAX</sub>: - 0.42%/°C
- Temperature Coefficient of V<sub>OC</sub>: - 0.32%/°C
- Temperature Coefficient of I<sub>SC</sub>: 0.059%/°C

**MAXIMUM RATINGS**

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

**WARRANTY**

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

(please refer to product warranty for details)

**PACKAGING CONFIGURATION**

- Modules per box: 25 pieces
- Modules per 40’ container: 550 pieces

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**CERTIFICATION**

- [ISO](#)
- [CE](#)
- [PV Cycle](#)