Founded in 1997, Trina Solar is the world’s leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

**Trina Solar's Backsheet Performance Warranty**

- EU-28 WEEE compliant
- Recyclable packaging

**Comprehensive Products and System Certificates**

- IEC61215/IEC61730/IEC61701/IEC62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 45001: Occupational Health and Safety Management System
- ISO 14064: Greenhouse Gases Emissions Verification

**High customer value**

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
- Lower guaranteed first year and annual degradation
- Designed for compatibility with existing mainstream system components
- Higher Return on Investment

**High power up to 505W**

- Large area cells based on 210mm silicon wafers and 1/3-cut cell technology
- Up to 21.1% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

**High reliability**

- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to salt, ammonia and sand

**High energy yield**

- Excellent light absorption throughout the day (IAM) and low light performance, validated by 3rd party certifications
- Lower temperature coefficient (-0.36%) and operating temperature
- Optimized power output under inter-row shading conditions

**500W+ Maximum Power Output**

- 21.1% Maximum Efficiency
- 0/+5W Positive Power Tolerance

**Trina Solar’s Backsheet Performance Warranty**

- 90.0% Guaranteed Power at Year 25
**DIMENSIONS OF PV MODULE (mm)**

**ELECTRICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Peak Power Watts-Pmax (Wp)*</th>
<th>480</th>
<th>485</th>
<th>490</th>
<th>495</th>
<th>500</th>
<th>505</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output Tolerance-Pmax (W)</td>
<td>0/±5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage-Vmp (V)</td>
<td>42.0</td>
<td>42.2</td>
<td>42.4</td>
<td>42.6</td>
<td>42.8</td>
<td>43.0</td>
</tr>
<tr>
<td>Maximum Power Current-Imp (A)</td>
<td>11.42</td>
<td>11.49</td>
<td>11.56</td>
<td>11.63</td>
<td>11.69</td>
<td>11.75</td>
</tr>
<tr>
<td>Open Circuit Voltage-Voc (V)</td>
<td>50.8</td>
<td>51.1</td>
<td>51.3</td>
<td>51.5</td>
<td>51.7</td>
<td>51.9</td>
</tr>
<tr>
<td>Short Circuit Current-Isc (A)</td>
<td>11.99</td>
<td>12.07</td>
<td>12.14</td>
<td>12.21</td>
<td>12.28</td>
<td>12.35</td>
</tr>
<tr>
<td>Module Efficiency ηm (%)</td>
<td>20.1</td>
<td>20.3</td>
<td>20.5</td>
<td>20.7</td>
<td>20.9</td>
<td>21.1</td>
</tr>
</tbody>
</table>

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

**ELECTRICAL DATA (NMOT)**

<table>
<thead>
<tr>
<th>Maximum Power-Pmax (Wp)</th>
<th>363</th>
<th>367</th>
<th>371</th>
<th>375</th>
<th>379</th>
<th>382</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power Voltage-Vmp (V)</td>
<td>39.6</td>
<td>39.8</td>
<td>40.0</td>
<td>40.2</td>
<td>40.4</td>
<td>40.6</td>
</tr>
<tr>
<td>Open Circuit Voltage-Voc (V)</td>
<td>48.0</td>
<td>48.2</td>
<td>48.4</td>
<td>48.6</td>
<td>48.8</td>
<td>49.0</td>
</tr>
<tr>
<td>Short Circuit Current-Isc (A)</td>
<td>9.65</td>
<td>9.72</td>
<td>9.77</td>
<td>9.83</td>
<td>9.89</td>
<td>9.94</td>
</tr>
</tbody>
</table>

**MECHANICAL DATA**

- **Solar Cells**: Monocrystalline
- **Cell Orientation**: 150 cells
- **Module Dimensions**: 2176 x 1098 x 35 mm
- **Weight**: 26.3 kg
- **Glass**: 3.2 mm High Transmission, AR Coated Heat Strengthened Glass
- **Encapsulant Material**: EVA
- **Backsheet**: White
- **Frame**: 35 mm Anodized Aluminium Alloy
- **Connector**: IP 68 rated
- **Cables**: Photovoltaic Technology Cable 4.0mm²
  - Portrait: N 280mm/P 280mm
  - Landscape: N 1400 mm/P 1400 mm
- **Connector**: TS4

**TEMPERATURE RATINGS**

<table>
<thead>
<tr>
<th>NMOT (Nominal Module Operating Temperature)</th>
<th>41°C (±3K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Coefficient of Pmax (ºC/Watt)</td>
<td>-0.36/ºK</td>
</tr>
<tr>
<td>Temperature Coefficient of Voc (ºC/Watt)</td>
<td>-0.25/ºK</td>
</tr>
<tr>
<td>Temperature Coefficient of Isc (ºC/Watt)</td>
<td>0.04/ºK</td>
</tr>
</tbody>
</table>

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

**WARRANTY**

- 10 year Product Workmanship Warranty
- 25 year Power Warranty
- 2½% first year degradation
- 0.55% annual degradation

(Please refer to product warranty for details)

**PACKAGING CONFIGURATION**

- Modules per box: 30 pieces
- Modules per 40' container: 600 pieces

**CAUTION:** READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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