BIFACIAL DUAL GLASS

DUOMAX twin
TSM-DEG14C.07 (II)

72 CELL
MONOCRYSTALLINE MODULE

345–365W
POWER OUTPUT RANGE

18.4%
MAXIMUM EFFICIENCY

0/+5W
POSITIVE POWER TOLERANCE

Increased value / Low LCOE
- Maximize limited size, savings in BOS and labour cost
- 30 year linear warranty, 0.5% annual degradation
- 1,500 V system voltage reduces BOS costs by increased string length

High power output
- Increase total power output through generation from front and back side
- Backside energy gain up to 25% depending on albedo
- Unique J-box design and installation method to avoid shading on the back side

Wide application
- Deployable for ground mounted utility, greenhouse and agricultural projects
- Special application like sound barriers on expressways
- Compatible with major tracker systems

Certified to withstand challenging environmental conditions
- Module coating resistant to sand, acid, and alkali
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

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Comprehensive Product And System Certificates
IEC61215/IEC61730/UL1703/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gas Emissions Verification
OHSAS 18001: Occupational Health and Safety Management System

Trina’s DUOMAX-Twin Linear Performance Warranty

Trina Solar’s DUOMAX-Twin Linear Performance Warranty

Additional value from Trina Solar’s DUOMAX warranty
- 4.1% 5th year
- 2.5% 10th year
- 3.4% 20th year
- 4.3% 30th year

Corner Protection

Founded in 1997, Trina Solar is the world’s leading comprehensive solutions provider for solar energy. We believe close cooperation with our partners is critical to success. Trina Solar now distributes its PV products to over 60 countries all over the world. Trina Solar is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina Solar as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.
**ELECTRICAL DATA @ STC**

<table>
<thead>
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<tbody>
<tr>
<td><strong>Peak Power Watts</strong> P&lt;sub&gt;MAX&lt;/sub&gt; (Wp)*</td>
<td>345</td>
<td>350</td>
<td>355</td>
<td>360</td>
<td>365</td>
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<tr>
<td><strong>Power Output Tolerance</strong> P&lt;sub&gt;MAX&lt;/sub&gt; (W)</td>
<td>±5</td>
<td>±5</td>
<td>±5</td>
<td>±5</td>
<td>±5</td>
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<tr>
<td><strong>Maximum Power Voltage</strong> V&lt;sub&gt;MPPV&lt;/sub&gt; (V)</td>
<td>39.0</td>
<td>39.2</td>
<td>39.4</td>
<td>39.6</td>
<td>39.8</td>
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<tr>
<td><strong>Maximum Power Current</strong> I&lt;sub&gt;MPPV&lt;/sub&gt; (A)</td>
<td>8.85</td>
<td>8.93</td>
<td>9.01</td>
<td>9.09</td>
<td>9.17</td>
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<td><strong>Open Circuit Voltage</strong> V&lt;sub&gt;OC&lt;/sub&gt; (V)</td>
<td>47.4</td>
<td>47.6</td>
<td>47.8</td>
<td>48.0</td>
<td>48.2</td>
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<tr>
<td><strong>Short Circuit Current</strong> I&lt;sub&gt;SC&lt;/sub&gt; (A)</td>
<td>9.47</td>
<td>9.54</td>
<td>9.61</td>
<td>9.68</td>
<td>9.75</td>
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<tr>
<td><strong>Module Efficiency</strong> η&lt;sub&gt;pm&lt;/sub&gt; (%)</td>
<td>17.4</td>
<td>17.7</td>
<td>17.9</td>
<td>18.2</td>
<td>18.4</td>
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* Measuring tolerance ±3%

**Bi-Facial Output - Backside Power Gain**

<table>
<thead>
<tr>
<th>Power Output (W)</th>
<th>Module Efficiency (%)</th>
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</thead>
<tbody>
<tr>
<td>380</td>
<td>19.1</td>
</tr>
<tr>
<td>385</td>
<td>19.5</td>
</tr>
<tr>
<td>391</td>
<td>19.8</td>
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<tr>
<td>396</td>
<td>20.0</td>
</tr>
<tr>
<td>402</td>
<td>20.2</td>
</tr>
<tr>
<td>397</td>
<td>20.3</td>
</tr>
<tr>
<td>403</td>
<td>20.7</td>
</tr>
<tr>
<td>408</td>
<td>20.9</td>
</tr>
<tr>
<td>414</td>
<td>21.2</td>
</tr>
<tr>
<td>431</td>
<td>21.8</td>
</tr>
<tr>
<td>438</td>
<td>22.1</td>
</tr>
<tr>
<td>444</td>
<td>22.5</td>
</tr>
<tr>
<td>450</td>
<td>22.7</td>
</tr>
<tr>
<td>456</td>
<td>22.9</td>
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**ELECTRICAL DATA @ NOCT**

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</thead>
<tbody>
<tr>
<td><strong>Maximum Power</strong> P&lt;sub&gt;MAX&lt;/sub&gt; (Wp)</td>
<td>255</td>
<td>259</td>
<td>263</td>
<td>267</td>
<td>270</td>
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<tr>
<td><strong>Maximum Power Voltage</strong> V&lt;sub&gt;MPPV&lt;/sub&gt; (V)</td>
<td>36.1</td>
<td>36.3</td>
<td>36.5</td>
<td>36.7</td>
<td>36.9</td>
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<tr>
<td><strong>Maximum Power Current</strong> I&lt;sub&gt;MPPV&lt;/sub&gt; (A)</td>
<td>7.07</td>
<td>7.14</td>
<td>7.20</td>
<td>7.27</td>
<td>7.33</td>
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<tr>
<td><strong>Open Circuit Voltage</strong> V&lt;sub&gt;OC&lt;/sub&gt; (V)</td>
<td>44.8</td>
<td>45.0</td>
<td>45.2</td>
<td>45.4</td>
<td>45.5</td>
</tr>
<tr>
<td><strong>Short Circuit Current</strong> I&lt;sub&gt;SC&lt;/sub&gt; (A)</td>
<td>7.65</td>
<td>7.70</td>
<td>7.76</td>
<td>7.82</td>
<td>7.87</td>
</tr>
</tbody>
</table>

**MECHANICAL DATA**

- **Solar Cells**: Monocrystalline 156.75 × 156.75 mm
- **Cell Orientation**: 72 cells (6 x 12)
- **Module Dimensions**: 1985 × 998 × 6 mm, 1989 × 1002 × 6 mm with edge banding
  - 1991 × 1004 × 7.6 mm with corner protector (Std)*
- **Weight**: 28.5 kg
- **Front Glass**: 2.5 mm, high transparency, AR coated and heat strengthened glass
- **EVA**: Transparent
- **Back Glass**: 2.5 mm, high transmission, low iron, heat strengthened glass
- **Frame**: Frameless
- **J-Box**: IP 67 rated or IP 68 rated
- **Cables**: Photovoltaic Technology Cable 4.0 mm²
  - Portrait: 90/180 mm, Landscape: 1750/1750 mm
- **Connector**: MC4 EVO2/UTX

* Do not combine with slide-in solutions.

**TEMPERATURE RATINGS**

- **Nominal Operating Cell Temperature (NOCT)**: 44°C (±2K)
- **Temperature Coefficient of P<sub>MAX</sub>**: - 0.39%/K
- **Temperature Coefficient of V<sub>MPPV</sub>**: - 0.29%/K
- **Temperature Coefficient of I<sub>SC</sub>**: 0.05%/K

**WARRANTY**

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

*Please refer to product warranty for details.

**MAXIMUM RATINGS**

- **Operational Temperature**: -40 to +85°C
- **Maximum System Voltage**: 1500 V DC (IEC)
  - 1000 V DC (UL)
- **Max Series Fuse Rating**: 20 A
* Do NOT connect fuse in combiner box with two or more strings in parallel connection

**PACKAGING CONFIGURATION**

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

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

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