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.

**THE DUOMAX twin**

**BIFACIAL DUAL GLASS 60-CELL MODULE**

**60 CELL MONOCRYSTALLINE MODULE**

**285-300W POWER OUTPUT RANGE**

**18.0% MAXIMUM EFFICIENCY**

**0~+5W POSITIVE POWER TOLERANCE**

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

**Low LCOE**
- Maximize limited size, savings in BOS and labour cost
- Compatible with major tracker systems

**Wide application**
- Deployable for ground mounted utility, greenhouse and agricultural projects
- Special application like sound barriers on expressways

**Environmental conditions**
- Resistant to sand, acid, alkaline

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**Trina Solar’s DUOMAX-Twin Linear Performance Warranty**

- **0.5% Annual Degradation Over 30 years**
- **Additional value from Trina Solar’s DUOMAX warranty**
  - Year 5: +1.62%
  - Year 10: +2.55%
  - Year 15: +3.46%
  - Year 20: +4.37%
  - Year 25: +5.26%
  - Year 30: +6.15%
**BIFACIAL DUAL GLASS 60-CELL MODULE**

**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

**ECALORICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Peak Power Watts-(P_{MAX}) (Wp)*</th>
<th>285</th>
<th>290</th>
<th>295</th>
<th>300</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_{MPV}) (V)</td>
<td>32.5</td>
<td>32.7</td>
<td>32.9</td>
<td>33.1</td>
</tr>
<tr>
<td>Maximum Power Current-(I_{SC}) (A)</td>
<td>8.77</td>
<td>8.87</td>
<td>8.97</td>
<td>9.07</td>
</tr>
<tr>
<td>Open Circuit Voltage-(V_{OC}) (V)</td>
<td>39.5</td>
<td>39.7</td>
<td>39.9</td>
<td>40.1</td>
</tr>
<tr>
<td>Short Circuit Current-(I_{SC}) (A)</td>
<td>9.38</td>
<td>9.48</td>
<td>9.58</td>
<td>9.68</td>
</tr>
<tr>
<td>Module Efficiency-(\eta) (%)</td>
<td>17.2</td>
<td>17.4</td>
<td>17.7</td>
<td>18.0</td>
</tr>
</tbody>
</table>

*STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance ±3%.

**BI-FACIAL OUTPUT - Backside Power Gain**

<table>
<thead>
<tr>
<th>Power Output(W)</th>
<th>Module Efficiency(%)</th>
<th>Power Output(W)</th>
<th>Module Efficiency(%)</th>
<th>Power Output(W)</th>
<th>Module Efficiency(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>314</td>
<td>18.9</td>
<td>328</td>
<td>19.8</td>
<td>356</td>
</tr>
<tr>
<td>15%</td>
<td>319</td>
<td>19.1</td>
<td>334</td>
<td>20.0</td>
<td>363</td>
</tr>
<tr>
<td>25%</td>
<td>325</td>
<td>19.5</td>
<td>339</td>
<td>20.4</td>
<td>369</td>
</tr>
<tr>
<td>30%</td>
<td>330</td>
<td>19.8</td>
<td>345</td>
<td>20.7</td>
<td>375</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA (NOCT)**

| Maximum Power-\(P_{MAX}\) (W) | 211 |
| Maximum Power Voltage-\(V_{MPV}\) (V) | 30.1 |
| Maximum Power Current-\(I_{SC}\) (A) | 7.01 |
| Open Circuit Voltage-\(V_{OC}\) (V) | 37.3 |
| Short Circuit Current-\(I_{SC}\) (A) | 7.58 |

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

**MECHANICAL DATA**

- **Solar Cells:** Monocrystalline 156.75 × 156.75 mm (6 inches)
- **Cell Orientation:** 60 cells (6 × 10)
- **Module Dimensions:** 1670 × 998 × 6 mm, 1674 × 1002 × 6 mm with edge banding
- **Weight:** 23.5 kg (51.8 lb)
- **Front Glass:** 2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
- **EVA:** Transparent
- **Back Glass:** 2.5 mm (0.10 inches), High Transmission, low iron, Heat Strengthened Glass
- **Frame:** Frameless
- **J-Box:** MC4 Compatible
- **Cables:** IP 67, Photovoltaic Technology Cable 4.0 mm² (0.006 inches²)
- **Connector:** Portrait: 90/180 mm, Landscape: 1550/1550 mm

**TEMPERATURE RATINGS**

- **NOCT (Nominal Operating Cell Temperature):** 44°C (±2°C)
- **Temperature Coefficient of \(P_{MAX}\):** -0.39%/°C
- **Temperature Coefficient of \(V_{OC}\):** -0.29%/°C
- **Temperature Coefficient of \(I_{SC}\):** 0.05%/°C

**MAXIMUM RATINGS**

- **Operational Temperature:** -40~+85°C
- **Maximum System Voltage:** 1500V DC (IEC)
- **Max Series Fuse Rating:** 20A

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

**WARRANTY**

10 year Product Workmanship Warranty
30 year Linear Power Warranty

(Please refer to product warranty for details)

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