THE DUOMAX twin
BIFACIAL DUAL GLASS 60 LAYOUT MODULE

60 LAYOUT MONOCRYSTALLINE MODULE

320-335W POWER OUTPUT RANGE

19.7% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

High power output
- Increased total power output through generation from front and back side
- Backside power gain up to 25% depending on albedo

Low LCOE
- Maximize limited space, savings in BOS and labour cost
- Higher power from same installation footprint as standard modules

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

Environmental conditions
- Resistant to sand, acid, alkaline
- 2400 Pa negative load
- 2400 Pa positive load (no back shading)
- 2400/2400 is the measured load, and the safety factor is 1.5 times

Additional value from Trina Solar’s DUOMAX warranty

Trina Solar’s DUOMAX Linear Performance Warranty

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.

Comprehensive Products and System Certificates
IEC61215/IEC61730/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
OHSAS 18001: Occupation Health and Safety Management System

Trina Solar’s DUOMAX Linear Performance Warranty

- Guaranteed power degradation over 30 years
- 0.5% Annual Degradation
- Additional value from Trina Solar’s DUOMAX warranty
- Industry standard
**ELECTRICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Peak Power Watts-PMAX (Wp)*</th>
<th>320</th>
<th>325</th>
<th>330</th>
<th>335</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output Tolerance-PMAX (W)</td>
<td>0  – +5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage-VMPP (V)</td>
<td>33.6</td>
<td>33.8</td>
<td>34.0</td>
<td>34.2</td>
</tr>
<tr>
<td>Maximum Power Current-IMPP (A)</td>
<td>9.53</td>
<td>9.61</td>
<td>9.70</td>
<td>9.79</td>
</tr>
<tr>
<td>Open Circuit Voltage-VOC (V)</td>
<td>41.4</td>
<td>41.6</td>
<td>41.9</td>
<td>42.1</td>
</tr>
<tr>
<td>Short Circuit Current-ISc (A)</td>
<td>10.04</td>
<td>10.12</td>
<td>10.21</td>
<td>10.30</td>
</tr>
<tr>
<td>Module Efficiency (\eta_{\text{max}}) (%)</td>
<td>18.8</td>
<td>19.1</td>
<td>19.4</td>
<td>19.7</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>10% Power Output(W)</th>
<th>352</th>
<th>358</th>
<th>363</th>
<th>369</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Efficiency(%)</td>
<td>20.6</td>
<td>21.0</td>
<td>21.3</td>
<td>21.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15% Power Output(W)</th>
<th>368</th>
<th>374</th>
<th>380</th>
<th>385</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Efficiency(%)</td>
<td>21.6</td>
<td>21.9</td>
<td>22.3</td>
<td>22.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>25% Power Output(W)</th>
<th>400</th>
<th>406</th>
<th>413</th>
<th>419</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Efficiency(%)</td>
<td>23.5</td>
<td>23.8</td>
<td>24.2</td>
<td>24.6</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA (NMOT)**

<table>
<thead>
<tr>
<th>Maximum Power-PMAX (Wp)</th>
<th>240</th>
<th>243</th>
<th>246</th>
<th>250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power Voltage-VMPP (V)</td>
<td>31.1</td>
<td>31.3</td>
<td>31.4</td>
<td>31.6</td>
</tr>
<tr>
<td>Maximum Power Current-IMPP (A)</td>
<td>7.71</td>
<td>7.77</td>
<td>7.84</td>
<td>7.91</td>
</tr>
<tr>
<td>Open Circuit Voltage-VOC (V)</td>
<td>38.7</td>
<td>38.9</td>
<td>39.2</td>
<td>39.4</td>
</tr>
<tr>
<td>Short Circuit Current-ISc (A)</td>
<td>8.11</td>
<td>8.18</td>
<td>8.25</td>
<td>8.32</td>
</tr>
</tbody>
</table>

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

**MECHANICAL DATA**

- Solar Cells: Monocrystalline
- Cell Orientation: 120 cells (6 × 20)
- Module Dimensions: 1698 × 1004 mm with edgebanding (66.85 × 39.53 inches), 1702 × 1008 mm with edgebanding (67.01 × 39.69 inches), 1704 × 1010 mm with corner (67.09 × 39.76 inches)
- Weight: 24.6 kg (54.2 lb)
- Front Glass: 2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
- Encapsulant Material: POE / EVA
- Back Glass: Frameless, Heat Strengthened (White Grid Glass)
- Frame: Frameless
- J-Box: IP 68 rated
- Cables: Photovoltaic Technology Cable 4.0 mm² (0.006 inches²)
- Connector: MC4 EVO2 / TS4
- Temperatures:
  - Nominal Module Operating Temperature (NMOT): 41°C (±3°C)
  - Temperature Coefficient of Pmax: -0.37%/°C
  - Temperature Coefficient of Voc: -0.29%/°C
  - Temperature Coefficient of Isc: 0.05%/°C

**WARRANTY**

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

(Please refer to product warranty for details)

**PACKAGING CONFIGURATION**

- Modules per box: 33 pieces
- Modules per 40’ container: 792 pieces

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

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