THE DUOMAX
HALF-CELL DUAL GLASS 144 LAYOUT MODULE

144 LAYOUT MULTICRYSTALLINE MODULE

340-355W POWER OUTPUT RANGE

17.5% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

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/UL1703/IEC61730/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupation Health and Safety Management System

High power
- Up to 355W front power and 17.5% module efficiency with half-cut technology bringing more BOS savings
- Lower resistance of half-cut ensure high power

High reliability
- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Proven to be reliable in high temperature and humidity areas
- Certificated to fire class A
- Minimizes micro-crack and snail trails
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

High energy generation
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature

Easy to install
- Frame design makes module compatible with all racking and installation methods
- Easy to handle and install as normal framed module during transportation

Trina Solar's DUOMAX Performance Warranty

From the 2nd year to the 30th year, the average annual power decline will be no more than 0.5%.
**DIMENSIONS OF PV MODULE (mm)**

**ELECTRICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Peak Power Watts - $P_{MAX}$ (Wp)*</th>
<th>340</th>
<th>345</th>
<th>350</th>
<th>355</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Tolerance - $P_{MAX}$ (W)</td>
<td>0 ~ +5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage - $V_{OPP}$ (V)</td>
<td>37.5</td>
<td>37.7</td>
<td>37.9</td>
<td>38.1</td>
</tr>
<tr>
<td>Maximum Power Current - $I_{SC}$ (A)</td>
<td>9.06</td>
<td>9.15</td>
<td>9.23</td>
<td>9.32</td>
</tr>
<tr>
<td>Open Circuit Voltage - $V_{OC}$ (V)</td>
<td>46.2</td>
<td>46.4</td>
<td>46.7</td>
<td>47.0</td>
</tr>
<tr>
<td>Short Circuit Current - $I_{SC}$ (A)</td>
<td>9.53</td>
<td>9.62</td>
<td>9.71</td>
<td>9.81</td>
</tr>
<tr>
<td>Module Efficiency $\eta$ (%)</td>
<td>16.8</td>
<td>17.0</td>
<td>17.3</td>
<td>17.5</td>
</tr>
</tbody>
</table>

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

*Measuring tolerance: ±3%.

**ELECTRICAL DATA (NMOT)**

<table>
<thead>
<tr>
<th>Maximum Power - $P_{MAX}$ (Wp)</th>
<th>257</th>
<th>261</th>
<th>265</th>
<th>269</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power Voltage - $V_{OPP}$ (V)</td>
<td>35.5</td>
<td>35.7</td>
<td>35.9</td>
<td>36.1</td>
</tr>
<tr>
<td>Maximum Power Current - $I_{SC}$ (A)</td>
<td>7.24</td>
<td>7.31</td>
<td>7.37</td>
<td>7.45</td>
</tr>
<tr>
<td>Open Circuit Voltage - $V_{OC}$ (V)</td>
<td>43.5</td>
<td>43.7</td>
<td>44.0</td>
<td>44.2</td>
</tr>
<tr>
<td>Short Circuit Current - $I_{SC}$ (A)</td>
<td>7.69</td>
<td>7.76</td>
<td>7.83</td>
<td>7.91</td>
</tr>
</tbody>
</table>

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

**MECHANICAL DATA**

- Solar Cells: Multicrystalline
- Cell Orientation: 144 cells (6 × 24)
- Module Dimensions: 2024 × 1002 × 30 mm (79.69 × 39.45 × 1.18 inches)
- Weight: 26.0 kg (57.3 lb)
- Front Glass: 2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
- Encapsulant Material: EVA
- Back Glass: 2.0 mm (0.08 inches), Heat Strengthened Glass
- Frame: 30 mm (1.18 inches) Anodized Aluminium Alloy
- J-Box: IP 68 rated
- Cables: Photovoltaic Technology Cable 4.0mm² (0.006 inches²).
- Connector: MC4 EVO2 / TS4*

*Please refer to regional datasheet for specified connector.

**TEMPERATURE RATINGS**

| NMOT (Nominal Module Operating Temperature) | 41°C (±3°C) |
| Temperature Coefficient of $P_{MAX}$ | -0.38%/°C |
| Temperature Coefficient of $V_{OC}$ | -0.31%/°C |
| Temperature Coefficient of $I_{SC}$ | 0.05%/°C |

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

**WARRANTY**

12 year Product Workmanship Warranty
30 year Power Warranty

(please refer to product warranty for details)

**PACKAGING CONFIGURATION**

- Modules per box: 35 pieces
- Modules per 40’ container: 770 pieces

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

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