THE DUOMAX\textsuperscript{twin}
BIFACIAL DUAL GLASS 120 LAYOUT MODULE

120 LAYOUT MONOCRYSTALLINE MODULE

315-335W POWER OUTPUT RANGE

19.7% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

High power
- Up to 335W front power and 19.7% 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
- Up to 25% additional power gain from back side depending on the albedo
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower temp coefficient (-0.35%) and 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%.
120 LAYOUT MODULE

WARRANTY
(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 35 pieces
Modules per 40’ container: 910 pieces

TEMPERATURE RATINGS

MAXIMUM RATINGS

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

ELECTRICAL DATA (STC)

<table>
<thead>
<tr>
<th>Peak Power Watts-PMAX (Wp)*</th>
<th>315</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>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage-VMP (V)</td>
<td>35.7</td>
<td>33.9</td>
<td>34.1</td>
<td>34.2</td>
<td>34.4</td>
</tr>
<tr>
<td>Maximum Power Current-IMPP (A)</td>
<td>9.35</td>
<td>9.45</td>
<td>9.54</td>
<td>9.64</td>
<td>9.74</td>
</tr>
<tr>
<td>Open Circuit Voltage-VOC (V)</td>
<td>40.7</td>
<td>40.9</td>
<td>41.1</td>
<td>41.2</td>
<td>41.4</td>
</tr>
<tr>
<td>Short Circuit Current-ISC (A)</td>
<td>9.98</td>
<td>10.08</td>
<td>10.18</td>
<td>10.28</td>
<td>10.38</td>
</tr>
<tr>
<td>Module Efficiency η (%)</td>
<td>18.5</td>
<td>18.8</td>
<td>19.1</td>
<td>19.4</td>
<td>19.7</td>
</tr>
</tbody>
</table>

STC: Irradiance 100W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measurement tolerance: ±3%.

Electrical characteristics with different rear side power gain (reference to 330 Wp front)

<table>
<thead>
<tr>
<th>Power Bifaciality</th>
<th>70±5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power Watts-PMAX (Wp)</td>
<td>347</td>
</tr>
<tr>
<td>Maximum Power Voltage-VMP (V)</td>
<td>34.2</td>
</tr>
<tr>
<td>Maximum Power Current-IMPP (A)</td>
<td>10.12</td>
</tr>
<tr>
<td>Open Circuit Voltage-VOC (V)</td>
<td>41.3</td>
</tr>
<tr>
<td>Short Circuit Current-ISC (A)</td>
<td>10.75</td>
</tr>
<tr>
<td>Pmax gain</td>
<td>5%</td>
</tr>
</tbody>
</table>

Power bifaciality: 70±5%

ELECTRICAL DATA (NMOT)

| Maximum Power-PMAX (Wp) | 239 | 243 | 247 | 250 | 254 |
| Maximum Power Voltage-VMP (V) | 31.7 | 31.9 | 32.1 | 32.2 | 32.4 |
| Maximum Power Current-IMPP (A) | 7.52 | 7.60 | 7.68 | 7.76 | 7.84 |
| Open Circuit Voltage-VOC (V) | 38.4 | 38.6 | 38.8 | 38.9 | 39.1 |
| Short Circuit Current-ISC (A) | 8.04 | 8.12 | 8.20 | 8.28 | 8.36 |

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

MECHANICAL DATA

Solar Cells: Monocrystalline
Cell Orientation: 120 cells (6 × 20)
Module Dimensions: 1700 × 1002 × 30 mm (66.93 × 39.45 × 1.18 inches)
Weight: 22.0 kg (48.5 lb)
Front Glass: 2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material: POE / EVA
Back Glass: 2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
Frame: 30 mm (1.18 inches) Anodized Aluminium Alloy
J-Box: IP 68 rated
Cables: Photovoltaic Technology Cable 4.0 mm²/two.superior (0.006 inches/two.superior)
Landscape: 280/280 mm (11.02/11.02 inches), Portrait: 1700/1700 mm (66.93/66.93 inches)
Connector: MC4 /TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature): 41°C (±3°C)
Temperature Coefficient of PMAX: -0.35%/°C
Temperature Coefficient of VOC: -0.25%/°C
Temperature Coefficient of ISC: 0.04%/°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)