THE TALLMAX™ FRAMED 144 LAYOUT MODULE

144 LAYOUT MONOCRYSTALLINE MODULE

385-415W POWER OUTPUT RANGE

20.7% 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/IEC61730/UL1703/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 415W front power and 20.7% 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
• 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 temp coefficient (-0.36%) and NMOT bring more energy leading to lower LCOE
• Better anti-shading performance and lower operating temperature

PERFORMANCE WARRANTY
12 Year Product Warranty · 25 Year Power Warranty

From the 2nd year to the 25th year, the average annual power decline will be no more than 0.6%.
### ELECTRICAL DATA (STC)

<table>
<thead>
<tr>
<th>Peak Power Watts-Pmax (Wp)*</th>
<th>385</th>
<th>390</th>
<th>395</th>
<th>400</th>
<th>405</th>
<th>410</th>
<th>415</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Tolerance-Pmax (W)</td>
<td>0±5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage-Vmp (V)</td>
<td>40.1</td>
<td>40.5</td>
<td>40.8</td>
<td>41.1</td>
<td>41.4</td>
<td>41.7</td>
<td>42.0</td>
</tr>
<tr>
<td>Maximum Power Current-Imp (A)</td>
<td>9.61</td>
<td>9.64</td>
<td>9.69</td>
<td>9.74</td>
<td>9.79</td>
<td>9.84</td>
<td>9.89</td>
</tr>
<tr>
<td>Open Circuit Voltage-Voc (V)</td>
<td>48.5</td>
<td>49.7</td>
<td>50.1</td>
<td>50.4</td>
<td>50.8</td>
<td>51.2</td>
<td>51.5</td>
</tr>
<tr>
<td>Short Circuit Current-Isc (A)</td>
<td>10.03</td>
<td>10.08</td>
<td>10.13</td>
<td>10.18</td>
<td>10.23</td>
<td>10.29</td>
<td>10.34</td>
</tr>
<tr>
<td>Module Efficiency ηm (%)</td>
<td>19.2</td>
<td>19.4</td>
<td>19.7</td>
<td>19.9</td>
<td>20.2</td>
<td>20.4</td>
<td>20.7</td>
</tr>
</tbody>
</table>

### ELECTRICAL DATA (NMOT)

| Maximum Power-Pmax (Wp) | 291 | 296 | 299 | 303 | 307 | 311 | 314 |
| Maximum Power Voltage-Vmp (V) | 37.9 | 38.6 | 38.9 | 39.1 | 39.4 | 39.7 | 39.9 |
| Maximum Power Current-Imp (A) | 7.68 | 7.66 | 7.70 | 7.74 | 7.78 | 7.82 | 7.87 |
| Open Circuit Voltage-Voc (V) | 45.8 | 46.9 | 47.3 | 47.6 | 47.9 | 48.3 | 48.6 |
| Short Circuit Current-Isc (A) | 8.08 | 8.12 | 8.16 | 8.20 | 8.24 | 8.29 | 8.33 |

### TEMPERATURE RATINGS

- NMOT (Nominal Module Operating Temperature): 41°C (±3°C)
- Temperature Coefficient of Pmax: -0.36%/°C
- Temperature Coefficient of Voc: -0.26%/°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
- 25 year Power Warranty

(please refer to product warranty for details)

### PACKAGING CONFIGURATION

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

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