THE TALLMAX FRAMED 144 LAYOUT MODULE

144 LAYOUT MULTICRYSTALLINE MODULE

340-355W POWER OUTPUT RANGE

17.7% 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
ISO 45001: Occupation Health and Safety Management System

PERFORMANCE WARRANTY
12 Year Product Warranty · 25 Year Power Warranty

100% 97.5% 90.9%

Years 5 10 15 20 25

From the 2nd year to the 25th year, the average annual power decline will be no more than 0.65%.
**ELECTRICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>340</th>
<th>345</th>
<th>350</th>
<th>355</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power Watts-P_{max} (Wp)*</td>
<td>340</td>
<td>345</td>
<td>350</td>
<td>355</td>
</tr>
<tr>
<td>Power Tolerance-P_{max} (W)</td>
<td>0 ~ +5</td>
<td>0 ~ +5</td>
<td>0 ~ +5</td>
<td>0 ~ +5</td>
</tr>
<tr>
<td>Maximum Power Voltage-V_{max} (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_{max} (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 η (%)</td>
<td>16.9</td>
<td>17.2</td>
<td>17.4</td>
<td>17.7</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>Parameter</th>
<th>257</th>
<th>261</th>
<th>265</th>
<th>269</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power-P_{max} (Wp)</td>
<td>257</td>
<td>261</td>
<td>265</td>
<td>269</td>
</tr>
<tr>
<td>Maximum Power Voltage-V_{max} (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_{max} (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:** 2015 × 996 × 35 mm (79.33×39.21×1.38 inches)
- **Weight:** 22.0 kg (48.5 lb)
- **Glass:** 3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
- **Encapsulant Material:** EVA
- **Backsheet:** White
- **Frame:** 35 mm (1.38 inches) Anodized Aluminium Alloy
- **J-Box:** IP 68 rated
- **Cables:** Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: N 280mm/P 280mm(11.02/11.02inches), Landscape: N 1400 mm/P 1400 mm (55.12/55.12 inches)
- **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_{oc}:** -0.38%/°C
- **Temperature Coefficient of V_{oc}:** -0.31%/°C
- **Temperature Coefficient of I_{sc}:** 0.05%/°C

**MAXIMUM RATINGS**

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

**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