THE TALLMAX
FRAMED 144 HALF-CELL MODULE

144-Cell MULTICRYSTALLINE MODULE

340-355W POWER OUTPUT RANGE

17.5% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

High power output
• Reduce BOS cost with high power bin and 1500V system voltage
• New cell string layout and split J-box location reduces the energy loss caused by inter-row shading
• Lower resistance of half-cut cells ensures higher power

High energy generation, low LCOE
• Excellent 3rd party validated IAM and low light performance with cell process and module material optimization
• Integrated LRF (Light Redirecting Film) to enhance power
• Better anti-shading performance and lower operating temperature

Certified to perform in highly challenging environments
• High PID resistance through cell process and module material control
• Resistant to salt, acid, sand, and ammonia
• Certified to 5400 Pa positive load and 2400 Pa negative load

Easy to install, wide application
• Frame design enables compatibility with standard installation methods
• Deployable for ground mounted and rooftop projects
• Safe and easy to transport, handle, and install

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/UL703/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

PERFORMANCE WARRANTY
10 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 0.65%.
**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-PMAX (Wp)*</td>
<td>340</td>
<td>345</td>
<td>350</td>
<td>355</td>
</tr>
<tr>
<td>Power Output Tolerance-PMAX (W)</td>
<td>0% ± 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage-VPMax (V)</td>
<td>37.5</td>
<td>37.7</td>
<td>37.9</td>
<td>38.1</td>
</tr>
<tr>
<td>Maximum Power Current-IpMax (A)</td>
<td>9.06</td>
<td>9.15</td>
<td>9.23</td>
<td>9.32</td>
</tr>
<tr>
<td>Open Circuit Voltage-Voc (V)</td>
<td>46.2</td>
<td>46.4</td>
<td>46.7</td>
<td>47.0</td>
</tr>
<tr>
<td>Short Circuit Current-Isc (A)</td>
<td>9.53</td>
<td>9.62</td>
<td>9.71</td>
<td>9.81</td>
</tr>
<tr>
<td>Module Efficiency ηp (%)</td>
<td>16.7</td>
<td>17.0</td>
<td>17.2</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>Parameter</th>
<th>257</th>
<th>261</th>
<th>265</th>
<th>269</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power-PMAX (Wp)</td>
<td>257</td>
<td>261</td>
<td>265</td>
<td>269</td>
</tr>
<tr>
<td>Maximum Power Voltage-VPMax (V)</td>
<td>35.5</td>
<td>35.7</td>
<td>35.9</td>
<td>36.1</td>
</tr>
<tr>
<td>Maximum Power Current-IpMax (A)</td>
<td>7.24</td>
<td>7.31</td>
<td>7.37</td>
<td>7.45</td>
</tr>
<tr>
<td>Open Circuit Voltage-Voc (V)</td>
<td>43.5</td>
<td>43.7</td>
<td>44.0</td>
<td>44.2</td>
</tr>
<tr>
<td>Short Circuit Current-Isc (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 x 24)
- Module Dimensions: 2024 x 1004 x 35 mm (79.69 x 39.53 x 1.38 inches)
- Weight: 22.8kg (50.3lb)
- 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 w/400mm Mounting Holes
- J-Box: IP 68 rated
- Cables: Photovoltaic Technology Cable 4.0mm² (0.006 inches²)
- Portrait: N 140mm / P 285mm (5.51/11.22 inches)
- Landscape: N 1400 mm / P 1400 mm (55.12/55.12 inches)

**TEMPERATURE RATINGS**

- NMOT (Nominal Module Operating Temperature): 41°C (±3°C)
- Temperature Coefficient of PMAX: -0.38%/°C
- Temperature Coefficient of Voc: -0.31%/°C
- Temperature Coefficient of Isc: 0.05%/°C

**PACKAGING CONFIGURATION**

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

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

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