Founded in 1997, Trina Solar is the world’s leading comprehensive solutions provider for solar energy. We believe close cooperation with our partners is critical to success. Trina Solar now distributes its PV products to over 60 countries all over the world. Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

**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
- OHSAS 18001: Occupation Health and Safety Management System

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**THE TALLMAX FRAMED 144 HALF-CELL MODULE**

**144-Cell MULTICRYSTALLINE MODULE**

**330-345W POWER OUTPUT RANGE**

**17.4% MAXIMUM EFFICIENCY**

**0~+5W POSITIVE POWER TOLERANCE**

**Increased value**
- Reduce BOS cost with high power bin and 1500V system voltage
- Low thermal coefficients for greater energy production at higher temperature

**Half-cell design brings higher efficiency**
- New cell string layout and split J-box location to reduce the energy loss caused by inter-row shading
- Integrated LRF (Light Redirecting Film) to enhance power, specially for ground-mount applications
- Lower cell connection power losses due to half-cell layout (144 monocrystalline)

**Highly reliable due to stringent quality control**
- Over 30 in-house tests (UV, TC, HF etc)
- Increased module robustness to minimize micro-cracks
- PID resistant and free of snail trails
- Internal test requirement of Trina more stringent than certification authority

**Certified to withstand the most challenging environmental conditions**
- 2400 Pa negative load
- 5400 Pa positive load

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**LINEAR PERFORMANCE WARRANTY**

10 Year Product Warranty · 25 Year Linear Power Warranty

[Graph showing linear performance warranty]

- Additional value from Trina Solar's linear warranty
- Trina standard
- Industry standard

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**PRODUCTS**
- TSM-PE14H
- TSM-PE14H.08

**COLOR OF FRAME**
- Silver
- Black

**POWER RANGE**
- 330-345W
**ELECTRICAL DATA (STC)**

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>37.2</td>
<td>8.87</td>
<td>330</td>
</tr>
<tr>
<td>37.4</td>
<td>8.96</td>
<td>335</td>
</tr>
<tr>
<td>37.6</td>
<td>9.05</td>
<td>340</td>
</tr>
<tr>
<td>37.8</td>
<td>9.14</td>
<td>345</td>
</tr>
</tbody>
</table>

- Peak Power Watts - P_{MAX} (Wp)\* 330
- Power Output Tolerance - P_{MAX} (W) 0 ~ +5
- Maximum Power Voltage - V_{Pmpp} (V) 37.2
- Maximum Power Current - I_{Pmpp} (A) 8.87
- Open Circuit Voltage - V_{Oc} (V) 45.8
- Short Circuit Current - I_{Sc} (A) 9.35
- Module Efficiency \( \eta_p (%) \) 16.6

**ELECTRICAL DATA (NOCT)**

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Current (A)</th>
<th>Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.7</td>
<td>7.10</td>
<td>247</td>
</tr>
<tr>
<td>34.9</td>
<td>7.18</td>
<td>250</td>
</tr>
<tr>
<td>35.1</td>
<td>7.23</td>
<td>254</td>
</tr>
<tr>
<td>35.4</td>
<td>7.29</td>
<td>258</td>
</tr>
</tbody>
</table>

- Maximum Power - P_{MAX} (Wp) 247
- Maximum Power Voltage - V_{Pmpp} (V) 34.7
- Maximum Power Current - I_{Pmpp} (A) 7.10
- Open Circuit Voltage - V_{Oc} (V) 42.7
- Short Circuit Current - I_{Sc} (A) 7.55

**MECHANICAL DATA**

- Solar Cells: Multicrystalline 156.75 × 78.375 mm (6.17 × 3.09 inches)
- Cell Orientation: 144 cells (6 × 24)
- Module Dimensions: 2000 × 992 × 40 mm (78.74 × 39.06 × 1.57 inches)
- Weight: 23 kg (50.7 lb)
- Glass: 3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
- Encapsulant Material: EVA(White/Transparent)
- Backsheet: White
- Frame: 40 mm (1.57 inches) Anodized Aluminum Alloy
- 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)
- Connector: Trina TS4

**TEMPERATURE RATINGS**

- NOCT: Nominal Operating Cell Temperature 44°C (±2°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

**MAXIMUM RATINGS**

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

**WARRANTY**

- 10 year Product Workmanship Warranty
- 25 year Linear Power Warranty

**PACKAGING CONFIGURATION**

- Modules per box: 27 pieces
- Modules per 40' container: 594 pieces

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**NOTICE:** Always follow safety and installation instructions before using the product.

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Version number: TSM_PE14H_EN_2019_A

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