THE FRAMED 72-CELL MODULE (1500 V)

TALLMAX
TSM-PE14A

72 CELL
MULTICRYSTALLINE MODULE

320-340W
POWER OUTPUT RANGE

17.5%
MAXIMUM EFFICIENCY

0/+5W
POSITIVE POWER TOLERANCE

Ideal for large scale installations
• High power footprint reduces installation time & BOS costs
• Optimized for tracker installation
• Reduce BOS cost by connecting more modules in a string
• 1500 V UL/1500 V IEC certied

One of the industry’s most trusted modules
• Field proven performance
• Trina Solar’s financial solidity consistently confirmed by banks and investors

Highly reliable due to stringent quality control
• All modules have to pass electroluminescence (EL) inspection
• Over 30 in-house tests (UV, TC, HF, and many more)
• In-house testing goes well beyond certification requirements
• PID resistant

Certified to withstand challenging environmental conditions
• Module coating resistant to sand, acid, and alkali
• 2400 Pa wind load
• 5400 Pa snow load
• 35 mm hail stones at 97 km/h

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 Solar is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina Solar as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

Comprehensive Product And System Certificates
IEC61215/IEC61730/UL1703/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gas Emissions Verification
OHSAS 18001: Occupational Health and Safety Management System

TrinaSolar

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty - 25 Year Linear Power Warranty

Additional value from Trina Solar’s linear warranty

Guaranteed Power
80% 90% 97.5% 100%

Years 5 10 15 20 25

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

DIMENSIONS OF PV MODULE
TSM-PE14A
(unit: mm)

TEMPERATURE RATINGS
Nominal Operating Cell Temperature (NOCT) 44°C (±2K)
Temperature Coefficient of Pmax -0.41%/K
Temperature Coefficient of Voc -0.32%/K
Temperature Coefficient of Isc 0.05%/K

MAXIMUM RATINGS
Operational Temperature -40 to +65°C
Maximum System Voltage 1500V DC (IEC) 1500V DC (UL)
Max Series Fuse Rating* 15 A
Mechanical Load 5400 Pa
Wind Load 2400 Pa

* DO NOT connect fuse in combiner box with two or more strings in parallel connection

WARRANTY
10 year Product Workmanship Warranty
25 year Linear Performance Warranty
(please refer to product warranty for details)

PACKAGING CONFIGURATION
Modules per box: 27 pieces
Modules per 40’ container: 648 pieces

<table>
<thead>
<tr>
<th>ELECTRICAL DATA @ STC</th>
<th>TSM-320 PE14A</th>
<th>TSM-325 PE14A</th>
<th>TSM-330 PE14A</th>
<th>TSM-335 PE14A</th>
<th>TSM-340 PE14A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power Watts-Pmax (Wp)*</td>
<td>320</td>
<td>325</td>
<td>330</td>
<td>335</td>
<td>340</td>
</tr>
<tr>
<td>Power Output Tolerance-Pmax (W)</td>
<td>0/+5</td>
<td>0/+5</td>
<td>0/+5</td>
<td>0/+5</td>
<td>0/+5</td>
</tr>
<tr>
<td>Maximum Power Voltage-Vmp (V)</td>
<td>37.1</td>
<td>37.2</td>
<td>37.4</td>
<td>37.6</td>
<td>37.8</td>
</tr>
<tr>
<td>Maximum Power Current-Imp (A)</td>
<td>8.63</td>
<td>8.73</td>
<td>8.83</td>
<td>8.91</td>
<td>8.99</td>
</tr>
<tr>
<td>Open Circuit Voltage-Voc (V)</td>
<td>45.5</td>
<td>45.6</td>
<td>45.8</td>
<td>46.0</td>
<td>46.2</td>
</tr>
<tr>
<td>Short Circuit Current-Isc (A)</td>
<td>9.15</td>
<td>9.19</td>
<td>9.28</td>
<td>9.35</td>
<td>9.42</td>
</tr>
<tr>
<td>Module Efficiency ηm (%)</td>
<td>16.5</td>
<td>16.7</td>
<td>17.0</td>
<td>17.2</td>
<td>17.5</td>
</tr>
</tbody>
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STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
* Measuring tolerance: ±3%

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<th>TSM-335 PE14A</th>
<th>TSM-340 PE14A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power-Pmax (Wp)</td>
<td>237</td>
<td>241</td>
<td>245</td>
<td>249</td>
<td>252</td>
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<tr>
<td>Maximum Power Voltage-Ump (V)</td>
<td>34.3</td>
<td>34.4</td>
<td>34.6</td>
<td>34.8</td>
<td>35.0</td>
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<tr>
<td>Maximum Power Current-Imp (A)</td>
<td>6.92</td>
<td>7.00</td>
<td>7.08</td>
<td>7.14</td>
<td>7.21</td>
</tr>
<tr>
<td>Open Circuit Voltage-Uoc (V)</td>
<td>42.1</td>
<td>42.2</td>
<td>42.4</td>
<td>42.6</td>
<td>42.8</td>
</tr>
<tr>
<td>Short Circuit Current-Isc (A)</td>
<td>7.39</td>
<td>7.42</td>
<td>7.49</td>
<td>7.55</td>
<td>7.60</td>
</tr>
</tbody>
</table>

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

MECHANICAL DATA
Solar Cells Multicrystalline 156.75 x 156.75 mm
Cell Orientation 72 cells (6 x 12)
Module Dimensions 1960 x 992 x 40 mm
Weight 22.5 kg
Glass 3.2 mm, high transparency, AR coated and heat tempered solar glass
Backsheet White
Frame Silver Anodized Aluminium Alloy
J-Box IP 67 or IP 68 rated
Cables Photovoltaic Technology Cable 4.0mm², 1200 mm
Connector MC4 EVO2/UTX/TS4

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