Enhanced safety
• Fire class A certified by TUV Rheinland according to fire test IEC 61730-2 / MST 23
• Certified for fire type13 (UL 1703)

Improved durability
• Anti PID
• Reduced soiling due to natural cleaning
• Increased module robustness to minimize micro-cracks

Increased value
• 1,500 V system voltage reduces BOS costs by increased string length
• 30 year linear warranty
• 0.5 % annual degradation

Highly reliable due to stringent quality control
• Over 30 in-house tests (UV, TC, HF, and many more)
• In-house testing goes well beyond certification requirements
• All modules have to pass electroluminescence (EL) inspection
• PID resistant
• 1000 V UL/1500 V IEC certified

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

Trina Solar’s DUOMAX Linear Performance Warranty

Comprehensive Product And System Certificates
IEC61215/IEC61730/UL1703/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14046: Greenhouse Gas Emissions Verification
OHSAS 18001: Occupational Health and Safety Management System

EU-28 WEEE
COMPLIANT
RECYCLABLE
PACKAGING

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.

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Trina’s DUOMAX Linear Warranty

Additional value from Trina Solar’s DUOMAX warranty
+1.8% 10 years
+2.8% 15 years
+3.8% 20 years
+4.8% 25 years
+5.8% 30 years

Trina Solar’s DUOMAX Linear Performance Warranty
### ELECTRICAL DATA @ STC

<table>
<thead>
<tr>
<th></th>
<th>TSM-320 PEG14</th>
<th>TSM-325 PEG14</th>
<th>TSM-330 PEG14</th>
<th>TSM-335 PEG14</th>
<th>TSM-340 PEG14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power Watts ($P_{MAX}$) (Wp)*</td>
<td>320</td>
<td>325</td>
<td>330</td>
<td>335</td>
<td>340</td>
</tr>
<tr>
<td>Power Output Tolerance ($P_{MAX}$) (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-$V_{max}$ (V)</td>
<td>37.2</td>
<td>37.4</td>
<td>37.6</td>
<td>37.8</td>
<td>38.0</td>
</tr>
<tr>
<td>Maximum Power Current-$I_{max}$ (A)</td>
<td>8.60</td>
<td>8.69</td>
<td>8.78</td>
<td>8.87</td>
<td>8.95</td>
</tr>
<tr>
<td>Open Circuit Voltage-$V_{oc}$ (V)</td>
<td>45.4</td>
<td>45.6</td>
<td>45.8</td>
<td>46.0</td>
<td>46.2</td>
</tr>
<tr>
<td>Short Circuit Current-$I_{sc}$ (A)</td>
<td>9.23</td>
<td>9.27</td>
<td>9.31</td>
<td>9.35</td>
<td>9.39</td>
</tr>
<tr>
<td>Module Efficiency $n_{s}$ (%)</td>
<td>16.3</td>
<td>16.6</td>
<td>16.8</td>
<td>17.1</td>
<td>17.3</td>
</tr>
</tbody>
</table>

* Measuring tolerance: ±3%

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5

### ELECTRICAL DATA @ NOCT

<table>
<thead>
<tr>
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<th>TSM-335 PEG14</th>
<th>TSM-340 PEG14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power-$P_{MAX}$ (Wp)</td>
<td>237</td>
<td>241</td>
<td>245</td>
<td>249</td>
<td>252</td>
</tr>
<tr>
<td>Maximum Power Voltage-$U_{occ}$ (V)</td>
<td>34.4</td>
<td>34.6</td>
<td>34.8</td>
<td>35.0</td>
<td>35.2</td>
</tr>
<tr>
<td>Maximum Power Current-$I_{max}$ (A)</td>
<td>6.90</td>
<td>6.97</td>
<td>7.04</td>
<td>7.11</td>
<td>7.18</td>
</tr>
<tr>
<td>Open Circuit Voltage-$V_{oc}$ (V)</td>
<td>42.0</td>
<td>42.2</td>
<td>42.4</td>
<td>42.6</td>
<td>42.8</td>
</tr>
<tr>
<td>Short Circuit Current-$I_{sc}$ (A)</td>
<td>7.45</td>
<td>7.48</td>
<td>7.52</td>
<td>7.55</td>
<td>7.58</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**: 1978 x 996 x 6 mm with edge banding
- **Weight**: 28.0 kg
- **Front Glass**: 2.5 mm, high transparency, AR coated and heat strengthened glass
- **EVA**: White
- **Back Glass**: 2.5 mm, heat strengthened glass
- **Frame**: Frameless
- **J-Box**: IP 67 rated or IP 68 rated
- **Cables**: Photovoltaic Technology Cable 4.0 mm²
  - Portrait: 140/285 mm, Landscape: 1400/1400 mm
- **Connector**: MC4 EVD2/UTX/TS4

* Do not combine with slide-in solutions.

### TEMPERATURE RATINGS

- **Nominal Operating Cell Temperature (NOCT)**: 44°C (±2K)
- **Temperature Coefficient of $P_{MAX}$**: -0.41%/K
- **Temperature Coefficient of $V_{oc}$**: -0.32%/K
- **Temperature Coefficient of $I_{sc}$**: 0.05%/K

### WARRANTY

- **10 year Product Workmanship Warranty**
- **30 year Linear Performance Warranty**
  - (Please refer to product warranty for details)

### PACKAGING CONFIGURATION

- **Modules per box**: 33 pieces
- **Modules per 40' container**: 726 pieces

### MAXIMUM RATINGS

- **Operational Temperature**: -40 to +85°C
- **Maximum System Voltage**: 1500VDC (IEC 1000VDC (UL))
- **Max Series Fuse Rating**: 15 A
- **Mechanical Load**: 5400 Pa
- **Wind Load**: 2400 Pa

* Max. mechanical loading values depend on the mounting method applied and only clamps approved by Trina Solar should be used.

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

### MORE OPTIONS

- **Compact AR (Antireflective) coating**
- **POE (Polyolefin Elastomer) foil**

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

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