THE DUOMAX™ PLUS
DUAL GLASS 60-CELL MODULE

60 CELL MONOCRYSTALLINE MODULE

280-315W POWER OUTPUT RANGE

19.2% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

Highly reliable due to stringent quality control
- PID resistant and free of snail trails
- Increased module robustness to minimize micro-cracks
- 100% EL double inspection

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

Increased value
- Higher maximum system voltage reduces BOS costs
- 30 year linear warranty
- 0.5% annual degradation
- Low thermal coefficients for more energy production at higher temperatures

Certified to withstand the most 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 M PLUS Linear Performance Warranty

- Guaranteed Power
- Additional value from Trina Solar’s DUOMAX warranty

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.

Trina Solar's DUOMAX M PLUS Linear Warranty
ELECTRICAL DATA (STC)

<table>
<thead>
<tr>
<th>Peak Power Watts-PMAX (Wp)*</th>
<th>280</th>
<th>285</th>
<th>290</th>
<th>295</th>
<th>300</th>
<th>305</th>
<th>310</th>
<th>315</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output Tolerance-PMAX (W)</td>
<td>0 ~ +5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Power Voltage-VMP (V)</td>
<td>31.7</td>
<td>31.8</td>
<td>32.2</td>
<td>32.5</td>
<td>32.7</td>
<td>32.9</td>
<td>33.1</td>
<td>33.3</td>
</tr>
<tr>
<td>Maximum Power Current-IMP (A)</td>
<td>8.84</td>
<td>8.96</td>
<td>9.02</td>
<td>9.08</td>
<td>9.18</td>
<td>9.26</td>
<td>9.37</td>
<td>9.46</td>
</tr>
<tr>
<td>Open Circuit Voltage-VOC (V)</td>
<td>38.4</td>
<td>38.5</td>
<td>38.7</td>
<td>39.4</td>
<td>39.8</td>
<td>40.0</td>
<td>40.2</td>
<td>40.4</td>
</tr>
<tr>
<td>Module Efficiency η (%)</td>
<td>17.0</td>
<td>17.3</td>
<td>17.6</td>
<td>17.9</td>
<td>18.2</td>
<td>18.5</td>
<td>18.8</td>
<td>19.2</td>
</tr>
</tbody>
</table>

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: ±3%.

ELECTRICAL DATA (NOCT)

| Maximum Power-PMAX (Wp) | 209 | 212 | 216 | 220 | 223 | 227 | 231 | 235 |
| Maximum Power Voltage-VMP (V) | 29.4 | 29.5 | 29.9 | 30.1 | 30.3 | 30.5 | 30.7 | 30.9 |
| Maximum Power Current-IMP (A) | 7.10 | 7.20 | 7.25 | 7.30 | 7.38 | 7.44 | 7.53 | 7.60 |
| Open Circuit Voltage-VOC (V) | 35.7 | 35.8 | 36.0 | 36.6 | 37.0 | 37.2 | 37.4 | 37.5 |
| Short Circuit Current-ISC (A) | 7.62 | 7.66 | 7.74 | 7.87 | 7.92 | 7.94 | 7.96 | 7.98 |

NOCT: Irradiance at 800W/m², Cell Temperature 20°C, Wind Speed 3m/s.

MECHANICAL DATA

- Solar Cells: Monocrystalline 156.75 × 156.75 mm (6 inches)
- Cell Orientation: 60 cells (6 × 10)
- Module Dimensions: 1658 × 992 × 6 mm (65.3 × 39.1 × 0.236 inches)
- Weight: 23.5 kg (51.8 lb)
- Front Glass: 2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
- EVA: White [DEG5(II), PEG5.40(II)]; Transparent [DEG5.07(II), DEG5.47(II)]
- Back Glass: 2.5 mm (0.10 inches), Heat Strengthened Glass
- Frame: Frameless
- J-Box: IP 67 or IP 68 rated
- Cables: Photovoltaic Technology Cable 4.0 mm² (0.006 inches²)
- Connector: Trina TS4 (1500V)
- Fire Type: Type 13

TEMPERATURE RATINGS

- NOCT (Nominal Operating Cell Temperature): 44°C (±2°C)
- Temperature Coefficient of PMAX: -0.39%/°C
- Temperature Coefficient of IMP: -0.29%/°C
- Temperature Coefficient of ISC: 0.05%/°C

MAXIMUM RATINGS

- Operational Temperature: -40 ~ +85°C
- Maximum System Voltage: 1500V DC (IEC)
- Max Series Fuse Rating: 15A (Power ≤290W)
- Max Power (Power ≥295W)

(PLC NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

- 10 year Product Workmanship Warranty
- 30 year Linear Power Warranty
(please refer to product warranty for details)

PACKAGING CONFIGURATION

- Modules per box: 33 pieces
- Modules per 40' container: 858 pieces

MORE OPTIONS

- 2.0mm Glass: 19.7 kg (43.4 lbs) [only for DEG5.40(II)/DEG5.47(II)]
- Compact AR Coating
- POE (Polyolefin Elastomer) Adhesive

*Not applicable to side-in racking solution

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