THE DUOMAX twin
HALF-CELL DUAL GLASS 60 LAYOUT MODULE

60 LAYOUT
MONOCRYSTALLINE MODULE

315-340W
POWER OUTPUT RANGE

19.9%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

High power output
- Combined with MBB technology, maximum 340W
- Reduce BOS cost with higher power bin and 1500V system voltage

Half-cell design brings higher efficiency
- Half-cell layout (120 monocrystalline)
- Low thermal coefficients for greater energy production at high operating temperature
- Low cell connection power loss due to half-cell layout (120 monocrystalline)

Highly reliable due to stringent quality control
- Over 30 in-house tests (UV, TC, HF etc)
- Internal test requirement of Trina more stringent than certification authority
- PID resistant
- 100% EL double inspection

Certified to withstand the most challenging environmental conditions
- Resistant to sand, acid, alkaline
- 2400 Pa negative load
- 2400 Pa positive load
  * 2400/2400 is the measured load, and the safety factor is 1.5 times

Trina Solar’s DUOMAX Linear Performance Warranty

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

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.

Trina Solar’s DUOMAX Linear Performance Warranty

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

<table>
<thead>
<tr>
<th>Years</th>
<th>Trina’s DUOMAX Linear Warranty</th>
<th>Trina standard</th>
<th>Industry standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>+1.6%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>+2.5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>+3.4%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>+4.3%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
I-V CURVES OF PV MODULE (335W)

P-V CURVES OF PV MODULE (335W)

ELECTRICAL DATA (STC)

<table>
<thead>
<tr>
<th>Peak Power Watts-PMAX (Wp)*</th>
<th>315</th>
<th>320</th>
<th>325</th>
<th>330</th>
<th>335</th>
<th>340</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>
</tr>
<tr>
<td>Maximum Power Voltage-VMPP (V)</td>
<td>32.9</td>
<td>33.2</td>
<td>33.5</td>
<td>33.8</td>
<td>34.1</td>
<td>34.4</td>
</tr>
<tr>
<td>Open Circuit Voltage-VOC (V)</td>
<td>40.0</td>
<td>40.2</td>
<td>40.4</td>
<td>40.6</td>
<td>40.8</td>
<td>41.0</td>
</tr>
<tr>
<td>Short Circuit Current-ISC (A)</td>
<td>10.15</td>
<td>10.20</td>
<td>10.25</td>
<td>10.30</td>
<td>10.35</td>
<td>10.40</td>
</tr>
<tr>
<td>Module Efficiency %</td>
<td>18.5</td>
<td>18.8</td>
<td>19.1</td>
<td>19.4</td>
<td>19.7</td>
<td>19.9</td>
</tr>
</tbody>
</table>

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

BI-FACIAL OUTPUT - Backside Power Gain

| Power Output(W) | 347 | 352 | 358 | 363 | 369 | 374 |
| Module Efficiency(%) | 20.3 | 20.6 | 21.0 | 21.3 | 21.6 | 21.9 |

| Power Output(W) | 362 | 368 | 374 | 380 | 385 | 391 |
| Module Efficiency(%) | 21.2 | 21.6 | 21.9 | 22.3 | 22.6 | 22.9 |

| Power Output(W) | 394 | 400 | 406 | 413 | 419 | 425 |
| Module Efficiency(%) | 23.1 | 23.5 | 23.8 | 24.2 | 24.6 | 24.9 |

ELECTRICAL DATA (NMOT)

| Maximum Power-PMAX (Wp) (W) | 238 | 241 | 245 | 249 | 253 | 256 |
| Maximum Power Voltage-VMPP (V) | 31.1 | 31.4 | 31.6 | 31.9 | 32.2 | 32.5 |
| Maximum Power Current-IMPP (A) | 7.64 | 7.69 | 7.75 | 7.80 | 7.84 | 7.99 |
| Open Circuit Voltage-VOC (V) | 38.1 | 38.3 | 38.5 | 38.7 | 38.9 | 39.1 |
| Short Circuit Current-ISC (A) | 8.18 | 8.23 | 8.27 | 8.31 | 8.35 | 8.39 |

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

MECHANICAL DATA

Solar Cells: Monocrystalline

Cell Orientation: 120 cells (6 × 20)

Module Dimensions:
- 1698 × 1004 × 6 mm (66.85 × 39.53 × 0.24 inches)
- 1702 × 1008 × 6 mm with edgebanding (67.01 × 39.69 × 0.24 inches)
- 1704 × 1010 × 7.6 mm with corner (67.09 × 39.76 × 0.30 inches)

Weight: 24.6 kg (54.2 lb)

Front Glass:
- 2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass

Encapsulant Material:
- POE / EVA

Back Glass:
- 2.5 mm (0.10 inches), Heat Strengthened (White Grid Glass)

Frame:
- Frameless

J-Box:
- IP 68 rated

Cables:
- Photovoltaic Technology Cable 4.0mm² (0.006 inches²)
- Portrait: 280/280 mm (11.02/11.02 inches)
- Landscape: 1700/1700 mm (66.93/66.93 inches)

Connector:
- MC4 EVO2 / TS4

TEMPERATURE RATINGS

NMO (Nominal Module Operating Temperature) | 41°C (±3°C)
Temperature Coefficient of Pmax | -0.37%/°C
Temperature Coefficient of Voc | -0.29%/°C
Temperature Coefficient of Isc | 0.05%/°C

(Warn: Do 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)

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
© 2019 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.
Version number: TSM_EN_2019_A www.trinasolar.com