As a leading global manufacturer of next generation photovoltaic products, we believe close cooperation with our partners is critical to success. With local presence around the globe, 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 working closely with installers, developers, distributors and other partners as the backbone of our shared success in driving Smart Energy Together.

**THE DUOMAX twin**

BIFACIAL DUAL GLASS 60-LAYOUT FRAMED MODULE

**60 LAYOUT MONOCRYSTALLINE MODULE**

**295-310W POWER OUTPUT RANGE**

**18.4% MAXIMUM EFFICIENCY**

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

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**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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**Products Power Range**

<table>
<thead>
<tr>
<th>Products</th>
<th>Color of Frame</th>
<th>Power Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSM-DE G5C.20(X)</td>
<td>Silver</td>
<td>295-310W</td>
</tr>
</tbody>
</table>

**High power output**

- Increased total power output through generation from front and back side  
- Backside power gain up to 25% depending on albedo  
- Unique J-box design and installation method to avoid shading on the back side

**Low LCOE**

- Maximize limited space, savings in BOS and labour cost  
- Higher power generation from same installation footprint as standard modules

**Wide application**

- Deployable for ground mounted utility, greenhouse and agricultural projects  
- Special application like sound barriers on expressways  
- Compatible with major tracker systems

**Environmental conditions**

- Module coating resistant to sand, acid, and alkali  
- 30 year linear warranty, 0.5% annual degradation

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![Graph showing Trina Solar's DUOMAX-Twin Linear Performance Warranty](image_url)
**BIFACIAL DUAL GLASS 60-LAYOUT FRAMED MODULE**

**WARRANTY**

(Please refer to product warranty for details)

- **10 year Product Workmanship Warranty**
- **30 year Linear Power Warranty**

**PACKAGING CONFIGURATION**

- Modules per box: 38 pieces
- Modules per 40' container: 912 pieces

**MECHANICAL DATA**

- **Solar Cells**: Monocrystalline 156.75 × 156.75 mm (6.17 inches)
- **Cell Orientation**: 60 cells (6 x 10)
- **Module Dimensions**: 1685 × 1000 × 25 mm (66.34 × 39.37 × 0.98 inches)
- **Weight**: 25kg (57.20 lb)
- **Front Glass**: 2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
- **Encapsulant material**: POE/EVA (Transparent)
- **Back Glass**: 2.5 mm (0.10 inches) white grid coated, Heat Strengthened Glass
- **Frame**: 25mm (0.98 inches) Anodized Aluminium Alloy
- **J-Box**: IP 68 rated
- **Cables**: Photovoltaic Technology Cable 4.0 mm² (0.006 inches²)
  - Portrait: 280/280 mm (11.02/11.02 inches)
  - Landscape: 1950/1550 mm (61.02/51.02 inches)
- **Connector**: MC4 EVO2/TS4

**TEMPERATURE RATINGS**

- **NOCT (Nominal Operating Cell Temperature)**: 44°C (±2°C)
- **Temperature Coefficient of Pmax**: -0.39%/°C
- **Temperature Coefficient of Vmp**: -0.29%/°C
- **Temperature Coefficient of Impp**: 0.05%/°C

**MAXIMUM RATINGS**

- **Operational Temperature**: -40° to +85°C
- **Maximum System Voltage**: 1500V DC (IEC)
- **1000V DC (UL)**
- **Max Series Fuse Rating**: 20A

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

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