THE

BIFACIAL DUAL GLASS 252 LAYOUT MODULE

252 LAYOUT
MONOCRYSTALLINE MODULE

465-485W
POWER OUTPUT RANGE

20.6%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

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.

Comprehensive Products and System Certificates

- IEC61215/IEC61701/IEC61730/UL61730
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO45001: Occupation Health and Safety Management System
- TUV, CE, MC, IEC, MCS, CEC, C-Tick, PV, SEV, TUV, CEA, CEI, CGC, VDE, BIS, IEC60904-1, IEC60891

High power
- Up to 485W front power and 20.6% module efficiency with 1/3-cut and MBB (Multi Busbar) technology bringing more BOS savings
- Lower resistance of half-cut and good reflection effect of MBB ensure high power

High reliability
- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Proven to be reliable in high temperature and humidity areas
- Minimizes micro-crack and snail trails
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

High energy generation
- Up to 25% additional power gain from back side depending on the albedo
- Excellent IAM by 3rd party with cell process and module material optimization
- Better anti-shading performance and lower operating temperature

Easy to install
- Frame design makes module compatible with all racking and installation methods
- Easy to handle and install as normal framed module during transportation

Trina Solar’s DUOMAX Performance Warranty

Guaranteed Power

Years
0% 50.0% 90% 100%

Trina's DUOMAX Warranty
### I-V CURVES OF PV MODULE (480W)

**P-V CURVES OF PV MODULE (480W)**

- **Measuring tolerance**: ±3%.

### Operational Temperature

- -40~+85°C

### Maximum System Voltage

- 1500V DC (IEC)
- 1500V DC (UL)

**Please refer to product warranty for details.**

- **12 year Product Workmanship Warranty**
- **30 year Power Warranty**

### Modules per box: 31 pieces

### Modules per 40’ container: 558 pieces

### Solar Cells

- **Monocrystalline**

### Cell Orientation

- 252 cells (12 × 21)

### Module Dimensions

- Portrait: N 450 mm / P 450 mm (17.72/17.72 inches)
- Landscape: N 1400 mm / P 1400 mm (55.12/55.12 inches)

### Weight

- 30.0 kg (66.1 lb)

### Front Glass

- 2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass

### Back Glass

- 2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)

### Encapsulant Material

- POE/EVA

### Frame

- 35 mm (1.38 inches) Anodized Aluminium Alloy

### J-Box

- IP 68 rated

### Cables

- Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: N 450 mm/P 450 mm (17.72/17.72 inches)
- Landscape: N 1400 mm / P 1400 mm (55.12/55.12 inches)

### Connector

- MC4 EVO2 / TS4*

*Please refer to regional datasheet for specified connector.

### TEMPERATURE RATINGS

- **NOCT (Nominal Operating Cell Temperature)**: 43°C (±2°C)
- **Temperature Coefficient of Pmax**: -0.34%/°C
- **Temperature Coefficient of Voc**: -0.25%/°C
- **Temperature Coefficient of Isc**: 0.04%/°C

**(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)**

### WARRANTY

- **12 year Product Workmanship Warranty**
- **30 year Power Warranty**

**Please refer to product warranty for details.**

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

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