THE

TALLMAX™ Plus

FRAMED 72-CELL MODULE (1500V)

72 CELL
MONOCRYSTALLINE MODULE

340-380W
POWER OUTPUT RANGE

19.5%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

Ideal for large scale installations
• Reduce BOS cost by connecting more modules in a string
• 1500V UL/1500V IEC certified

Maximize limited space with top-end efficiency
• Up to 193 W/m² power density
• Low thermal coefficients for greater energy production at high operating temperatures

Highly reliable due to stringent quality control
• Over 30 in-house tests (UV, TC, HF etc)
• Increased module robustness to minimize micro-cracks
• PID resistant and free of snail trails
• Internal test requirement of Trina more stringent than certification authority

Certified to withstand the most challenging environmental conditions
• 2400 Pa negative load
• 5400 Pa positive load

Comprehensive Products
And System Certificates
IEC61215/IEC61701/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

Founded in 1997, Trina Solar is the world’s leading total solutions 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
**I-V CURVES OF PV MODULE (365W)**

- Voltage (V): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100
- Current (A): 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0

**Power (W): 600W, 400W, 200W**

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

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**DIMENSIONS OF PV MODULE (mm/INCHES)**

- Height: 1181.39
- Width: 392.5
- Depth: 41.57

**PRODUCTS & POWER RANGE**

- TSM-DE14A(j) STD mono
- TSM-DE14A(j) PERC mono

**ELECTRICAL DATA (STC)**

- Peak Power Watts-Pmax (Wp)*: 340, 345, 350, 355, 360, 365, 370, 375, 380
- Power Output Tolerance-Pmax (W): 0 ~ +5
- Maximum Power Voltage-Vmp (V): 38.2, 38.5, 38.7, 38.8, 39.0, 39.3, 39.7, 40.0, 40.3
- Open Circuit Voltage-Voc (V): 46.2, 46.7, 47.0, 47.4, 47.7, 48.0, 48.3, 48.5, 48.8
- Module Efficiency ηmax (%): 17.5, 17.7, 18.0, 18.3, 18.5, 18.8, 19.0, 19.3, 19.5

*Steady-state irradiance 1000W/m², Cell temperature 25°C, Air Mass AM1.5.

**ELECTRICAL DATA (NOCT)**

- Maximum Power-Pmax (Wp): 253, 257, 261, 264, 268, 272, 276, 279, 283
- Maximum Power Voltage-Vmp (V): 35.4, 35.7, 35.9, 36.0, 36.2, 36.4, 36.8, 37.1, 37.2
- Maximum Power Current-Imp (A): 7.15, 7.20, 7.26, 7.34, 7.42, 7.47, 7.50, 7.53, 7.60
- Open Circuit Voltage-Voc (V): 42.9, 43.4, 43.7, 44.1, 44.3, 44.6, 44.9, 45.1, 45.3
- Short Circuit Current-Isc (A): 7.67, 7.71, 7.75, 7.79, 7.83, 7.89, 7.94, 7.98, 8.03

**NoCT: irradiance at 900W/m², Ambient Temperature 20°C, Wind Speed 1m/s.**

**MECHANICAL DATA**

- Solar Cells: Monocrystalline 156.75 x 156.75 mm (6 inches)
- Cell Orientation Module: 72 cells (6 x 12)
- Dimensions: 1960 x 992 x 40 mm (77.2 x 39.1 x 1.57 inches)
- Weight: 22.5 kg (49.6 lb)
- Glass: 3.2 mm (0.13 inch), High Transmission, AR Coated Tempered Glass
- Encapsulant Material: EVA (White/Transparent)
- Backsheet: White
- Frame: Silver Anodized Aluminium Alloy
- J-Box: IP 67 or IP 68 rated
- Cables: Photovoltaic Technology Cable 4.0mm² (0.006 inches²)
- Connector: Trina T54
- Fire Type: Type 1 or Type 2

**TEMPERATURE RATINGS**

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

**MAXIMUM RATINGS**

- Operational Temperature: -40°C ~ +85°C
- Maximum System Voltage: 1500V DC (IEC)
- Max Series Fuse Rating: 15A (Power ≤350W)

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

**WARRANTY**

- 10 year Product Workmanship Warranty
- 25 year Linear Power Warranty

(please refer to product warranty for details)

**PACKAGING CONFIGURATION**

- Modules per box: 27 pieces
- Modules per 40’ container: 648 pieces