THE ALLMAX™ Plus
FRAMED 120 HALF-CELL MODULE

120-Cell MONOCRYSTALLINE MODULE

285-320W POWER OUTPUT RANGE

19.3% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

Founded in 1997, 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.

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

Increased value
- Reduce BOS cost with high power bin
- Low thermal coefficients for greater energy production at higher temperature

Half-cell design brings higher efficiency
- New cell string layout and split J-box location to reduce the energy loss caused by inter-row shading
- Integrated LRF (Light Redirecting Film) to enhance power, specially for ground-mount applications (optional)
- Lower cell connection power losses due to half-cell layout (120 monocrystalline)

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

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

Additional value from Trina Solar's linear warranty

- Trina standard
- Industry standard
**DIMENSIONS OF PV MODULE (mm)**

**I-V CURVES OF PV MODULE (315W)**

**P-V CURVES OF PV MODULE (315W)**

**ELECTRICAL DATA (STC)**

- Peak Power Watts - P_{MAX} (Wp): 285, 290, 295, 300, 305, 310, 315, 320
- Power Output Tolerance - P_{MAX} (W): 0 ~ +5
- Maximum Power Voltage - V_{P_{MAX}} (V): 31.6, 31.9, 32.1, 32.4, 32.6, 32.9, 33.1, 33.3
- Open Circuit Voltage - V_{OC} (V): 38.9, 39.1, 39.5, 39.7, 40.0, 40.2, 40.4, 40.6
- Module Efficiency - η_{M} (%): 17.2, 17.5, 17.8, 18.1, 18.4, 18.7, 19.0, 19.3

*Measuring tolerance: ±3%.

**ELECTRICAL DATA (NOCT)**

- Maximum Power - P_{MAX} (W): 212, 216, 220, 224, 228, 231, 235, 238
- Maximum Power Voltage - V_{P_{MAX}} (V): 29.6, 29.8, 30.0, 30.3, 30.6, 30.8, 30.9, 31.2
- Maximum Power Current - I_{P_{MAX}} (A): 7.17, 7.26, 7.32, 7.39, 7.44, 7.51, 7.58, 7.64
- Open Circuit Voltage - V_{OC} (V): 36.3, 36.5, 36.8, 37.0, 37.3, 37.5, 37.6, 37.8
- Short Circuit Current - I_{SC} (A): 7.63, 7.71, 7.79, 7.83, 7.87, 7.94, 8.02, 8.08

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

**MECHANICAL DATA**

- Solar Cells: Monocrystalline 156.75 × 78.375 mm (6.17 × 3.09 inches)
- Cell Orientation: 120 cells (6 × 20)
- Module Dimensions: 1675 × 992 × 35 mm (65.94 × 39.06 × 1.38 inches)
- Weight: 18.8 kg (41.4 lb)
- Glass: 3.2 mm (0.13 inches)
- Encapsulant Material: EVA
- Backsheet: White [DD05H.08(II)]; Black [DD05H.05(II)]
- 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 140mm / P 285mm (5.51/11.22 inches)
- Landscape: N 1200 mm / P 1200 mm (47.24/47.24 inches)
- Connector: MC4

**TEMPERATURE RATINGS**

- NOCT (Nominal Operating Cell Temperature): 44°C (±2°C)
- Temperature Coefficient of P_{MAX}: -0.37%/°C
- Temperature Coefficient of V_{OC}: -0.29%/°C
- Temperature Coefficient of I_{SC}: 0.05%/°C

**MAXIMUM RATINGS**

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

**WARRANTY**

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

(Please refer to product warranty for details)

**PACKAGING CONFIGURATION**

- Modules per box: 30 pieces
- Modules per 40’ container: 780 pieces

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