60 CELL MULTICRYSTALLINE MODULE

265-285W POWER OUTPUT RANGE

17.4% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

Our most versatile product
- Compatible with all major BOS components and system designs
- 1000V UL/1000V IEC certified

Maximize Limited Space
- Up to 174 W/m² power density

Highly reliable due to stringent quality control
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant
- 100% EL double inspection

Certified to withstand the most challenging environmental conditions
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

THE FRAMED 60-CELL MODULE

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/IEC61701/UL1703/IEC61701/IEC61716
- ISO 9001: Quality Management System
- ISO14001: Environmental Management System
- ISO14064: Greenhouse gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System

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Trina Solar
**PRODUCTS | POWER RANGE**

| TSM-PD05.08 | 270-285W |
| TSM-PD05.05 | 265-280W |

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

**ELECTRICAL DATA (STC)**

- Peak Power Watts-P_{Max}(Wp)*: 265, 270, 275, 280, 285
- Power Output Tolerance-P_{Max}(W): 0 ~ +5
- Maximum Power Voltage-V_{Max}(V): 30.8, 30.9, 31.1, 31.4, 31.6
- Maximum Power Current-I_{Max}(A): 8.61, 8.73, 8.84, 8.92, 9.02
- Open Circuit Voltage-V_{OC}(V): 37.7, 37.9, 38.1, 38.2, 38.3
- Module Efficiency η_{M}(%): 16.2, 16.5, 16.8, 17.1, 17.4

**ELECTRICAL DATA (NOCT)**

| Maximum Power-P_{Max}(Wp) | 197 | 200 | 204 | 208 | 211 |
| Maximum Power Voltage-V_{Max}(V) | 28.5 | 28.6 | 28.8 | 29.0 | 29.2 |
| Maximum Power Current-I_{Max}(A) | 6.90 | 7.00 | 7.09 | 7.15 | 7.23 |
| Open Circuit Voltage-V_{OC}(V) | 34.9 | 35.1 | 35.3 | 35.4 | 35.5 |
| Short Circuit Current-I_{SC}(A) | 7.39 | 7.44 | 7.52 | 7.59 | 7.66 |

**MECHANICAL DATA**

- Solar Cells: Multicrystalline 156.75 × 156.75 mm (6 inches)
- Cell Orientation: 60 cells (6 × 10)
- Module Dimensions: 1650 × 992 × 35 mm (65.0 × 39.1 × 1.38 inches)
- Weight: 18.6 kg (41.0 lb)
- Glass: 3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
- Backsheet: White (PD05, PD05.08); Black (PD05.05)
- Frame: Black Anodized Aluminium Alloy (PD05.08, PD05.05)
- J-Box: IP 67 or IP 68 rated
- Cables: Photovoltaic Technology Cable 4.0mm² (0.006 inches²), 1000 mm (39.4 inches)
- Connector: MC4
- Fire Type: Type 1 or Type 2

**TEMPERATURE RATINGS**

- NOCT(Nominal Operating Cell Temperature): 44°C (±2°C)
- Temperature Coefficient of P_{Max}: -0.41%/°C
- Temperature Coefficient of V_{OC}: -0.32%/°C
- Temperature Coefficient of I_{SC}: 0.05%/°C

**MAXIMUM RATINGS**

- Operational Temperature: -40~+85°C
- Maximum System Voltage: 1000V DC (IEC)
- Max Series Fuse Rating: 15A

**WARRANTY**

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

**PACKAGING CONFIGURATION**

- Modules per box: 30 pieces
- Modules per 40' container: 840 pieces

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

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Version number: TSM_EN_2018_C

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