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 Solar is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina Solar as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

Comprehensive Product And System Certificates
IEC61215/IEC61730/UL1703
IEC61701 Salt Mist Corrosion
IEC62716 Ammonia Corrosion
IEC60068 Blowing Sand
ISO9001; ISO14001; OHSAS18001

High power output
• Multi busbar technology combined with mono PERC cells
• Maximize limited space with up to 199 W/m² power density

Outstanding visual appearance
• Ideal for residential rooftop application
• Designed with aesthetics in mind
• Ultra-thin, virtually invisible busbars

Half-cut cell design brings higher efficiency
• Low thermal coefficients for higher energy yield at elevated operating temperatures
• Reduced interconnection losses

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
• 2x 100% inline EL inspection

Certified to withstand challenging environmental conditions
• Salt Mist Corrosion
• Ammonia Corrosion
• Blowing Sand

LINEAR PERFORMANCE WARRANTY
10 Year Product Warranty · 25 Year Linear Power Warranty

Additional value from Trina Solar’s linear warranty

Guaranteed Power

80% 90% 100%
89%

Years 5  10  15  20  25

Trina standard Industry standard
TSM-DD06M.05(II)

**Electrical Data @ STC**

- Peak Power Watts ($P_{MAX}$) *: TSM-310 310, TSM-315 315, TSM-320 320, TSM-325 325, TSM-330 330, TSM-335 335, TSM-340 340
- Power Output Tolerance ($P_{MAX}$): TSM-310 0/+5, TSM-315 0/+5, TSM-320 0/+5, TSM-325 0/+5, TSM-330 0/+5, TSM-335 0/+5, TSM-340 0/+5
- Maximum Power Voltage ($U_{MPP}$): TSM-310 33.0, TSM-315 33.2, TSM-320 33.4, TSM-325 33.6, TSM-330 33.8, TSM-335 34.0, TSM-340 34.2
- Open Circuit Voltage ($U_{OC}$): TSM-310 39.9, TSM-315 40.1, TSM-320 40.3, TSM-325 40.4, TSM-330 40.6, TSM-335 40.7, TSM-340 41.1

**Electrical Data @ NMOT**

- Open Circuit Voltage ($U_{OC}$): TSM-310 37.6, TSM-315 37.8, TSM-320 38.0, TSM-325 38.1, TSM-330 38.2, TSM-335 38.3, TSM-340 38.7

**Mechanical Data**

- Solar Cells: Monocrystalline
- Cell Orientation: 120 cells (6 x 20)
- Module Dimensions: 1698 x 1004 x 35 mm
- Weight: 18.7 kg
- Glass: 3.2 mm, High Transmission, AR Coated Heat Strengthened Glass
- Encapsulant Material: EVA
- Backsheet: Black
- Frame: 35 mm Anodized Aluminum Alloy
- J-Box: IP 68 rated
- Cables: Photovoltaic Cable 4.0mm²
- Connector: TS4

**Temperature Ratings**

- NMOT (Nominal Module Operating Temperature): 41°C (+3K)
- Temperature Coefficient of $P_{MAX}$: -0.37%/K
- Temperature Coefficient of $U_{OC}$: -0.29%/K
- Temperature Coefficient of $I_{SC}$: 0.05%/K

**Maximum Ratings**

- Operational Temperature: -40 to +85°C
- Maximum System Voltage: 1000V DC (IEC)
- Max Series Fuse Rating: 20A
- Snow Load: 5400 Pa (3600 Pa*)
- Wind Load: 2400 Pa (1600 Pa*)

**Packaging Configuration**

- Modules per box: 30 pieces
- Modules per 40’ container: 720 pieces

**Warranty**

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

(Please refer to the product warranty for details)

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