THE DUAL GLASS 40-CELL MODULE

40 CELL MULTICRYSTALLINE MODULE

170-180W POWER OUTPUT RANGE

10.9% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

Highly reliable due to stringent quality control
• PID resistant and free of snail trails
• Increased module robustness to minimize micro-cracks
• 100% EL double inspection

Enhanced safety
• Fire class A certified by TUV Rheinland according to fire test IEC 61730-2/MST 23
• Certified for fire type 13 (UL 1703)

Increased value
• Higher maximum system voltage reduces BOS costs
• 30 year linear warranty
• 0.5% annual degradation
• Low thermal coefficients for more energy production at higher temperatures
• Designed for awning, carport, and greenhouse applications

Certified to withstand the most challenging environmental conditions
• Module coating resistant to sand, acid, and alkali
• 2400 Pa wind load
• 5400 Pa snow load
• 35 mm hail stones at 97 km/h

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

Trina Solar’s DUOMAX Linear Performance Warranty

Trina’s DUOMAX Linear Warranty  97.5%  95.3%  92.8%  90.8%  84.8%
Trina standard  90%  85%  80%  75%  70%
Standard Step  80%  75%  70%  65%  60%

80% Annual Degradation Over 30 years
DUAL GLASS 40-CELL MODULE

**ELECTRICAL DATA (STC)**

- Peak Power Watts-P_{MAX} (Wp)*: 170, 175, 180
- Power Output Tolerance-P_{MAX} (W): 0 ~ +5
- Maximum Power Voltage-V_{MAX} (V): 20.4, 20.6, 20.8
- Maximum Power Current-I_{MAX} (A): 8.33, 8.50, 8.67
- Open Circuit Voltage-V_{OC} (V): 25.3, 25.4, 26.0
- Short Circuit Current-I_{SC} (A): 8.86, 9.00, 9.14
- Module Efficiency η (%): 10.3, 10.6, 10.9

*STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

**ELECTRICAL DATA (NOCT)**

- Maximum Power-P_{MAX} (Wp): 126, 130, 134
- Maximum Power Voltage-V_{MAX} (V): 18.8, 19.0, 19.2
- Maximum Power Current-I_{MAX} (A): 6.70, 6.83, 6.95
- Open Circuit Voltage-V_{OC} (V): 23.5, 23.6, 23.8
- Short Circuit Current-I_{SC} (A): 7.15, 7.27, 7.38

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

**MECHANICAL DATA**

- Solar Cells: Multicrystalline 156.75 × 156.75 mm (6 inches)
- Cell Orientation: 40 cells (4 × 10)
- Module Dimensions: 1658 × 992 × 6 mm (65.3 × 39.1 × 0.236 inches)
- Weight: 22.5 kg (49.6 lb)
- Front Glass: 2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
- EVA: Transparent
- Back Glass: 2.5 mm (0.10 inches), Heat Strengthened Glass
- Frame: Frameless
- J-Box: IP 67 or IP 68 rated
- Cables: Photovoltaic Technology Cable 4.0 mm² (0.006 inches²)
- Connector: MC4 or Amphenol UTX (1500V)
- Fire Type: Type 13

**TEMPERATURE RATINGS**

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

**MAXIMUM RATINGS**

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

**WARRANTY**

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

*(Please refer to product warranty for details)*

**PACKAGING CONFIGURATION**

- Modules per box: 33 pieces
- Modules per 40’ container: 858 pieces

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

© 2017 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.

Version number: TSM_EN_2017_B

www.trinasolar.com