# THE **DUOMAX** DUAL GLASS 40-CELL MODULE

## 40 CELL MULTICRYSTALLINE MODULE

**170-180W** POWER OUTPUT RANGE

10.9% 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





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## 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 type13 (UL 1703)



## Increased value

- Higher maximum system voltage reduces BOS costs
- 30 year linear warranty
- 0.5% annual degradation
- · Low thermal coefficents 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

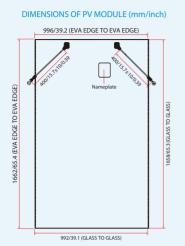
### Trina Solar's DUOMAX Linear Performance Warranty





## DUAL GLASS 40-CELL MODULE

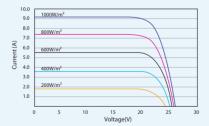




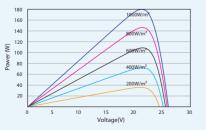
Back View (Portrait)



I-V CURVES OF PV MODULE(180W)



P-V CURVES OF PV MODULE(180W)





#### ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	170	175	180
Power Output Tolerance-P <sub>MAX</sub> (W)		0~+5	
Maximum Power Voltage-V <sub>MPP</sub> (V)	20.4	20.6	20.8
Maximum Power Current-I <sub>MPP</sub> (A)	8.33	8.50	8.67
Open Circuit Voltage-Voc (V)	25.3	25.4	26.0
Short Circuit Current-Isc (A)	8.86	9.00	9.14
Module Efficiency	10.3	10.6	10.9

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5. \*Measuring tolerance: ±3%.

#### ELECTRICAL DATA (NOCT)

Maximum Power-P <sub>MAX</sub> (Wp)	126	130	134
Maximum Power Voltage-V <sub>MPP</sub> (V)	18.8	19.0	19.2
Maximum Power Current-I <sub>MPP</sub> (A)	6.70	6.83	6.95
Open Circuit Voltage-Voc (V)	23.5	23.6	23.8
Short Circuit Current-Isc (A)	7.15	7.27	7.38

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

#### MECHANICAL DATA

Multicrystalline 156.75 × 156.75 mm (6 inches)	
40 cells (4 × 10)	
1658 × 992 × 6 mm (65.3 × 39.1 × 0.236 inches)	
1662 $\times$ 996 $\times$ 6 mm with edge banding (65.4 $\times$ 39.2 $\times$ 0.236 inches)	
22.5 kg (49.6 lb)	
2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass	
Transparent	
2.5 mm (0.10 inches), Heat Strengthened Glass	
Frameless	
IP 67 or IP 68 rated	
Photovoltaic Technology Cable 4.0 mm <sup>2</sup> (0.006 inches <sup>2</sup> )	
Portrait: 400/400 mm (15.7/15.7 inches)	
MC4 or Amphenol UTX (1500V)	
Type 13	

#### **TEMPERATURE RATINGS**

NOCT (Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of PMAX	- 0.41%/°C
Temperature Coefficient of Voc	- 0.32%/°C
Temperature Coefficient of Isc	0.05%/°C

### WARRANTY

10 year Product Workmanship Warranty

30 year Linear Power Warranty

(Please refer to product warranty for details)

## MAXIMUM RATINGS

Operational Temperature	-40~+85°C	
Maximum System Voltage	1500V DC (IEC)	
	1000V DC (UL)	
Max Series Fuse Rating	15A	
(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)		

## PACKAGING CONFIGURATION

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

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