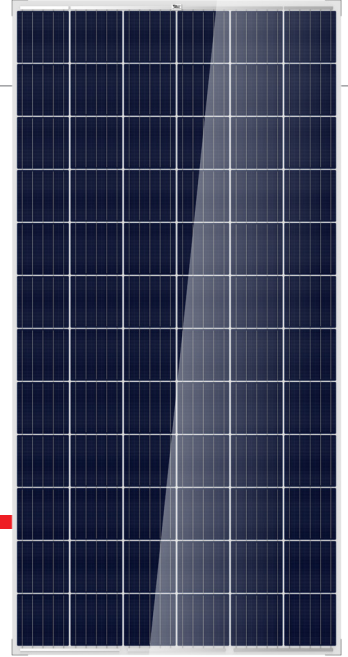


# THE DUOMAX MODULE



**72 CELL**  
MULTICRYSTALLINE MODULE

**310-325W**  
POWER OUTPUT RANGE

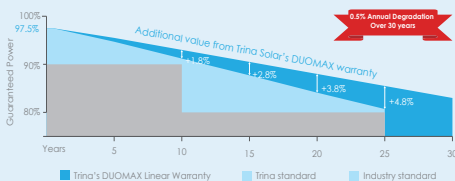
**16.6%**  
MAXIMUM EFFICIENCY

**0~+5W**  
POSITIVE POWER TOLERANCE

As a leading global manufacturer of next generation photovoltaic products, we believe close cooperation with our partners is critical to success. With local presence around the globe, 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 as the backbone of our shared success in driving Smart Energy Together.

Trina Solar Limited  
www.trinasolar.com

Trina Solar's DUOMAX Linear Performance Warranty



### 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 I3 (UL 1703)



### Increased value

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



### 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

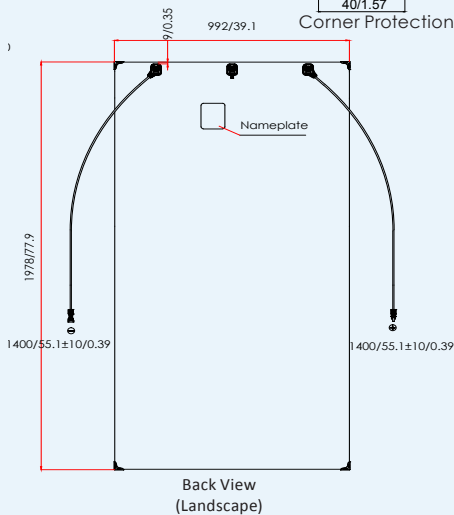
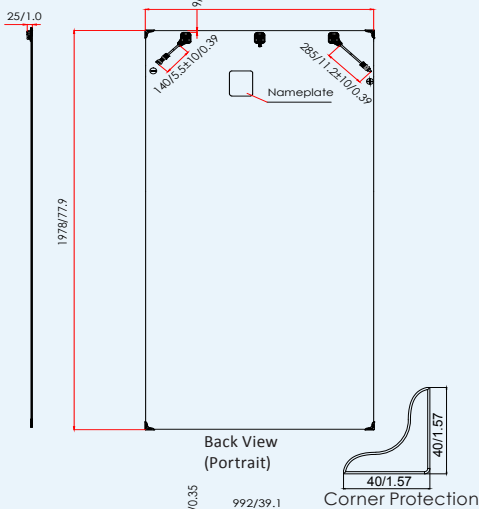
## Comprehensive products and system certificates

- IEC 61215/ IEC 61730/ UL 1703/ IEC 61701/ IEC 62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System

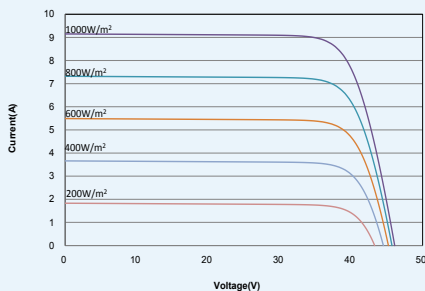


## DIMENSIONS OF PV MODULE

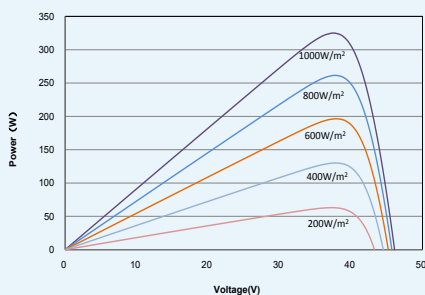
unit:mm/inches



## I-V CURVES OF PV MODULE(325W)



## P-V CURVES OF PV MODULE(325W)



## ELECTRICAL DATA (STC)

Peak Power Watts- $P_{MAX}$ (Wp)*	310	315	320	325
Power Output Tolerance- $P_{MAX}$ (W)	0 ~ +5			
Maximum Power Voltage- $V_{MPP}$ (V)	36.8	37.0	37.2	37.4
Maximum Power Current- $I_{MPP}$ (A)	8.42	8.51	8.60	8.69
Open Circuit Voltage- $V_{OC}$ (V)	45.6	45.7	45.9	46.1
Short Circuit Current- $I_{SC}$ (A)	8.91	8.99	9.07	9.14
Module Efficiency $\eta_m$ (%)	15.8	16.1	16.3	16.6

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

## ELECTRICAL DATA (NOCT)

Maximum Power- $P_{MAX}$ (Wp)	230	234	238	241
Maximum Power Voltage- $V_{MPP}$ (V)	34.1	34.3	34.4	34.7
Maximum Power Current- $I_{MPP}$ (A)	6.75	6.82	6.92	6.94
Open Circuit Voltage- $V_{OC}$ (V)	42.3	42.4	42.6	42.6
Short Circuit Current- $I_{SC}$ (A)	7.20	7.26	7.32	7.38

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

## MECHANICAL DATA

Solar Cells	Monocrystalline 156 × 156 mm (6 inches)
Cell Orientation	72 cells (6 × 12)
Module Dimensions	1978 × 992 × 6 mm (77.9 × 39.1 × 0.236 inches) 1984 × 998 × 7.6 mm with corner (78.1 × 39.3 × 0.299 inches) 1984 × 998 × 25 mm with corner and junction box (78.1 × 39.3 × 0.984 inches)
Weight	28.0 kg (61.7 lb)
Front Glass	2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
EVA	White
Back Glass	2.5 mm (0.10 inches), Heat Strengthened Glass
Frame	Frameless
J-Box	IP 67 rated or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm <sup>2</sup> (0.006 inches <sup>2</sup> ) Portrait: 140/285 mm (5.5/11.2 inches) Landscape: 1400/1400 mm (55.1/55.1 inches)
Connector	MC4 Compatible or Amphenol H4/UTX (1500V)
Fire Type	Type 13

## TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	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	1500V DC (IEC) 1000V DC (UL)
Max Series Fuse Rating	15A

## WARRANTY

10 year Product Workmanship Warranty

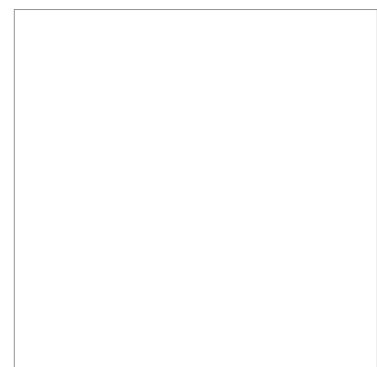
30 year Linear Power Warranty

(Please refer to product warranty for details)

## PACKAGING CONFIGURATION

Modules per box: 30 pieces

Modules per 40' container: 660 pieces



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