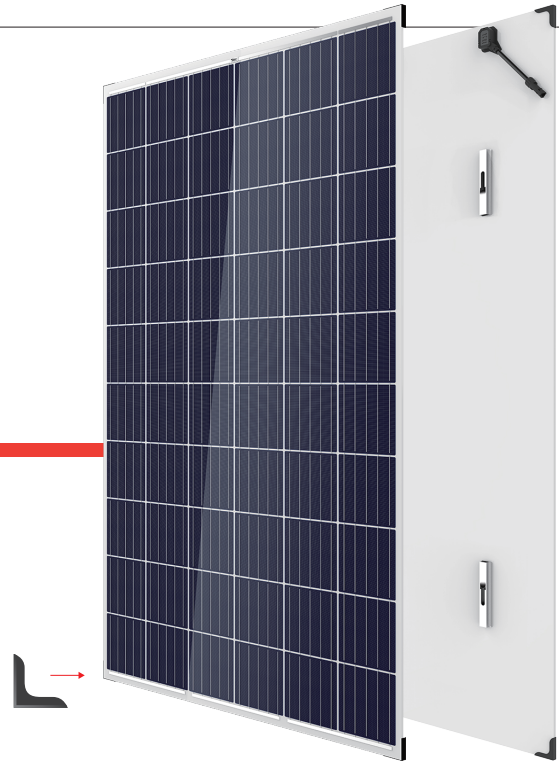


# THE DUOMAX

DUAL GLASS 60-CELL MODULE



**60 CELL**  
MULTICRYSTALLINE MODULE

**260-280W**  
POWER OUTPUT RANGE

**17.0%**  
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

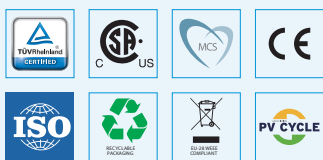
IEC61215/IEC61730/UL1703/IEC61701/IEC62716

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO14064: Greenhouse gases Emissions Verification

OHSAS 18001: Occupation Health and Safety Management System



### 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 TÜV Rheinland according to fire test IEC 61730-2/MST 23
- Certified for fire type 13 (UL 1703)



### Increased value

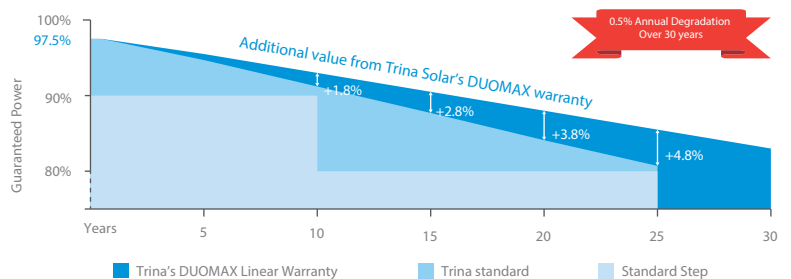
- Higher maximum system voltage reduces BOS costs
- 30 year linear warranty
- 0.5% annual degradation
- Low thermal coefficients for more energy production at higher temperatures



### Certified to withstand the most challenging environmental conditions

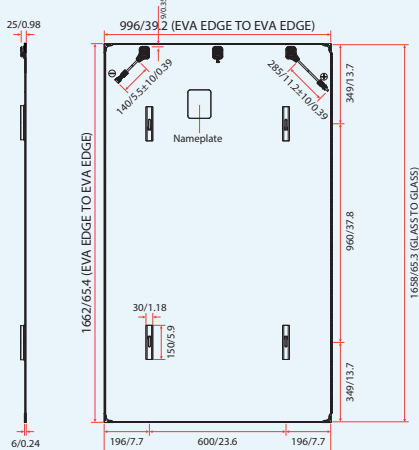
- Module coating resistant to sand, acid, and alkali
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

Trina Solar's DUOMAX Linear Performance Warranty

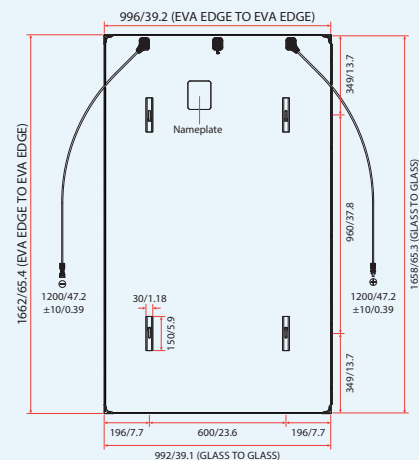


PRODUCTS	INSTALLATION METHOD	POWER RANGE
TSM-PEG5	Clamp	265-280W
TSM-PEG5.40	Gecko Grip	265-280W
TSM-PEG5.07	Clamp	260-275W
TSM-PEG5.47	Gecko Grip	260-275W

### DIMENSIONS OF PV MODULE (mm/inch)

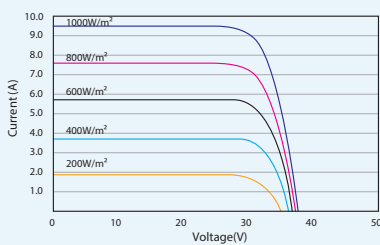


Back View (Portrait)

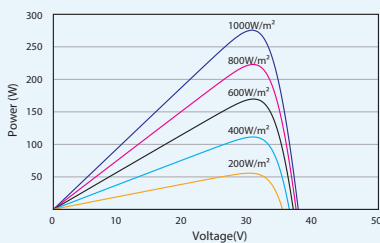


Back View (Landscape)

### I-V CURVES OF PV MODULE(280W)



### P-V CURVES OF PV MODULE(280W)



### ELECTRICAL DATA (STC)

	260	265	270	275	280
Peak Power Watts- $P_{MAX}$ (Wp)*	260	265	270	275	280
Power Output Tolerance- $P_{MAX}$ (W)	0 ~ +5				
Maximum Power Voltage- $V_{MPP}$ (V)	30.5	30.8	31.1	31.3	31.6
Maximum Power Current- $I_{MPP}$ (A)	8.52	8.60	8.69	8.78	8.87
Open Circuit Voltage- $V_{OC}$ (V)	37.6	37.6	37.6	37.7	37.7
Short Circuit Current- $I_{SC}$ (A)	9.10	9.20	9.26	9.34	9.42
Module Efficiency $\eta$ (%)	15.8	16.1	16.4	16.7	17.0

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

### ELECTRICAL DATA (NOCT)

	193	197	201	204	208
Maximum Power- $P_{MAX}$ (Wp)	193	197	201	204	208
Maximum Power Voltage- $V_{MPP}$ (V)	28.0	28.2	28.3	28.5	28.7
Maximum Power Current- $I_{MPP}$ (A)	6.89	6.98	7.11	7.19	7.25
Open Circuit Voltage- $V_{OC}$ (V)	34.9	34.9	34.9	34.9	35.0
Short Circuit Current- $I_{SC}$ (A)	7.35	7.43	7.49	7.55	7.62

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

### MECHANICAL DATA

Solar Cells	Multicrystalline 156.75 × 156.75 mm (6 inches)
Cell Orientation	60 cells (6 × 10)
Module Dimensions	1658 × 992 × 6 mm (65.3 × 39.1 × 0.236 inches) 1662 × 996 × 6 mm with edge banding (65.4 × 39.2 × 0.236 inches) 1664 × 998 × 7.6 mm with corner protector (65.5 × 39.3 × 0.299 inches) (Default)*
Weight	23.5 kg (51.8 lb)
Front Glass	2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
EVA	White (PEG5, PEG5.40); Transparent (PEG5.07, PEG5.47)
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 mm <sup>2</sup> (0.006 inches <sup>2</sup> ) Portrait: 140/285 mm (5.5/11.2 inches) Landscape: 1200/1200 mm (47.2/47.2 inches)
Connector	MC4 or Amphenol H4/UTX (1500V)
Fire Type	Type 13

### 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	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)

### 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: 780 pieces

### MORE OPTIONS

More Options Available

- 2.0mm Glass: 19.7 kg (43.4 lb) (Only for PEG5.40/PEG5.47)
- Compact AR Coating
- POE (Polyolefin Elastomer) Adhesive

\*Not applicable to slide-in racking solution