# 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 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



# 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** TSM-PEG5 TSM-PEG5.40

TSM-PEG5.07

TSM-PEG5.47

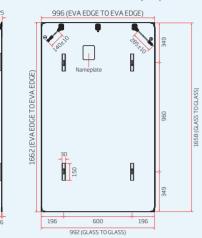
INSTALLATION METHODS Clamp Gecko Grip

265-280W 265-280W 260-275W

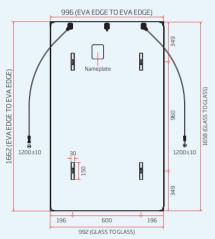
260-275W

# Gecko Grip **DIMENSIONS OF PV MODULE(mm)**

Clamp

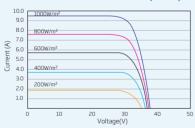


Back View (Portrait)

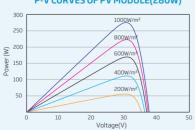


Back View (Landscape)

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



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



#### **ELECTRICAL DATA (STC)**

Peak Power Watts-PMAX (Wp)*	260	265	270	275	280
Power Output Tolerance-PMAX (W)	0~+5				
Maximum Power Voltage-VMPP (V)	30.5	30.8	31.1	31.3	31.6
Maximum Power Current-Impp (A)	8.52	8.60	8.69	8.78	8.87
Open Circuit Voltage-V∞ (V)	37.6	37.6	37.6	37.7	37.7
Short Circuit Current-Isc (A)	9.10	9.20	9.26	9.34	9.42
Module Efficiency η™ (%)	15.8	16.1	16.4	16.7	17.0

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. \*Measuring tolerance:  $\pm 3\%$ .

#### **ELECTRICAL DATA (NOCT)**

Maximum Power-P <sub>MAX</sub> (Wp)	193	197	201	204	208
Maximum Power Voltage-VMPP (V)	28.0	28.2	28.3	28.5	28.7
Maximum Power Current-IMPP (A)	6.89	6.98	7.11	7.19	7.25
Open Circuit Voltage-Voc (V)	34.9	34.9	34.9	34.9	35.0
Short Circuit Current-Isc (A)	7.35	7.43	7.49	7.55	7.62

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	60 cells (6 × 10)		
	1658 × 992 × 6 mm (65.3 × 39.1 × 0.236 inches)		
Module Dimensions	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) (Std) $^\star$		
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		
	Photovoltaic Technology Cable 4.0 mm² (0.006 inches²)		
Cables	Portrait: 140/285 mm (5.5/11.2 inches)		
	Landscape: 1200/1200 mm (47.2/47.2 inches)		
Connector	MC4 Compatible (1500V)**		
A.	++		

<sup>\*</sup>Not apply to slide-in solution project.

#### **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	

#### **MAXIMUM RATINGS**

Operational Temperature	-40~+85°C
Maximum SystemVoltage	1500V DC (IEC)
	1000V DC (UL)
Max Series Fuse Rating	15A

<sup>(</sup>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

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



<sup>\*\*</sup>Please refer to regional datasheet for specified connector