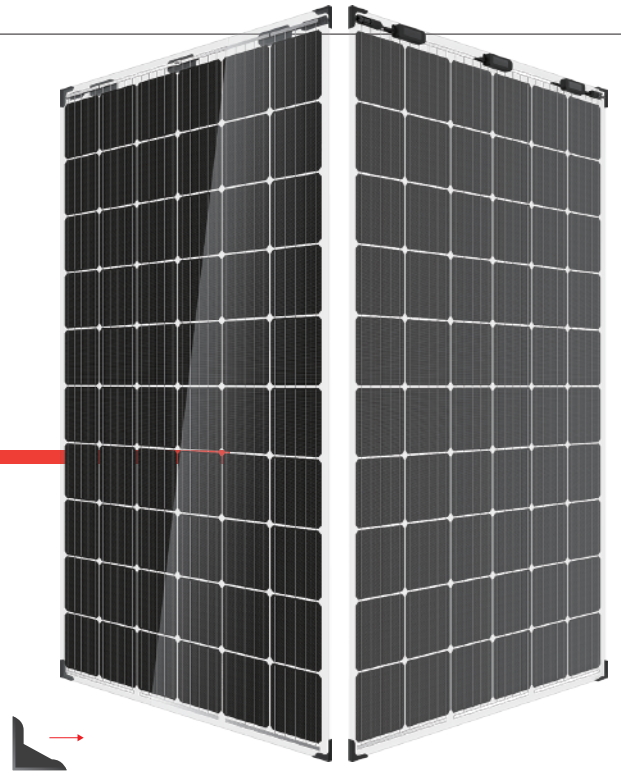


THE DUOMAX^{tw}

BIFACIAL DUAL GLASS 60-CELL MODULE



60 CELL
MONOCRYSTALLINE MODULE

285-300W
POWER OUTPUT RANGE

18.0%
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.

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



High power output

- Increase total power output through generation from front and back side
- Backside power gain up to 25% depending on albedo
- Unique J-box design and installation method to avoid shading on the back side



Low LCOE

- Maximize limited size, savings in BOS and labour cost
- Compatible with major tracker systems



Wide application

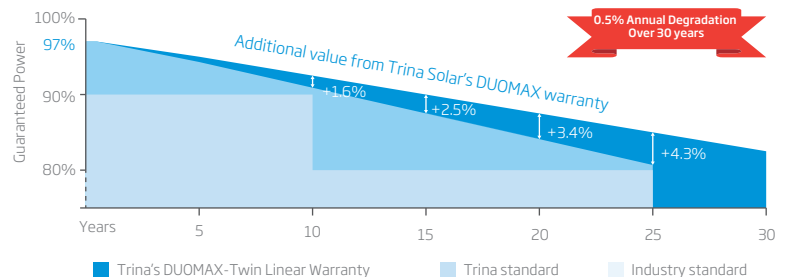
- Deployable for ground mounted utility, greenhouse and agricultural projects
- Special application like sound barriers on expressways



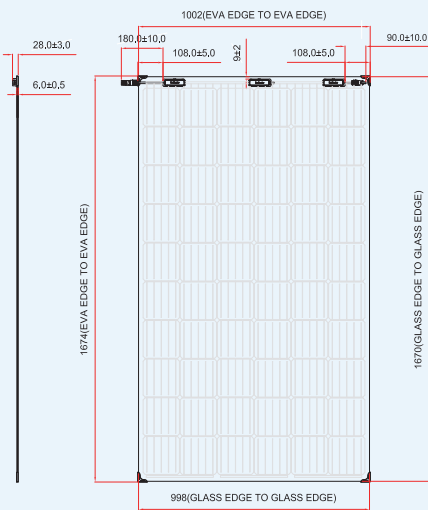
Environmental conditions

- Resistant to sand, acid, alkaline

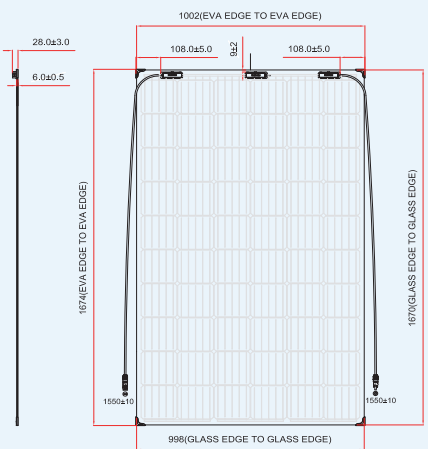
Trina Solar's DUOMAX-Twin Linear Performance Warranty



PRODUCTS	INSTALLATION METHODS	POWER RANGE
TSM-DEG5C.07(II)	CLAMP	285-300W

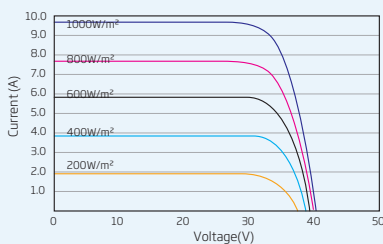


Back View (Portrait)

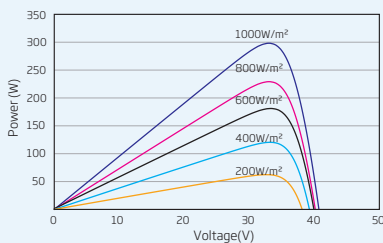


Back View (Landscape)

I-V CURVES OF PV MODULE(300W)



P-V CURVES OF PV MODULE(300W)



ELECTRICAL DATA (STC)

Parameter	285	290	295	300
Peak Power Watts- P_{MAX} (W)*	285	290	295	300
Power Output Tolerance- P_{MAX} (W)	0 ~ +5			
Maximum Power Voltage- V_{MPP} (V)	32.5	32.7	32.9	33.1
Maximum Power Current- I_{MPP} (A)	8.77	8.87	8.97	9.07
Open Circuit Voltage- V_{OC} (V)	39.5	39.7	39.9	40.1
Short Circuit Current- I_{SC} (A)	9.38	9.48	9.58	9.68
Module Efficiency η_m (%)	17.2	17.4	17.7	18.0

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

BI-FACIAL OUTPUT - Backside Power Gain

Gain	Power Output(W)	Module Efficiency(%)	314	319	325	330
10%	Power Output(W)	18.9	19.1	19.5	19.8	
	Module Efficiency(%)	19.8	20.0	20.4	20.7	
15%	Power Output(W)	21.5	21.8	22.1	22.5	
	Module Efficiency(%)	21.5	21.8	22.1	22.5	

ELECTRICAL DATA (NOCT)

Parameter	211	215	219	223
Maximum Power- P_{MAX} (Wp)	211	215	219	223
Maximum Power Voltage- V_{MPP} (V)	30.1	30.3	30.5	30.7
Maximum Power Current- I_{MPP} (A)	7.01	7.09	7.17	7.25
Open Circuit Voltage- V_{OC} (V)	37.3	37.5	37.7	37.9
Short Circuit Current- I_{SC} (A)	7.58	7.66	7.74	7.82

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

MECHANICAL DATA

Solar Cells	Monocrystalline 156.75 × 156.75 mm (6 inches)
Cell Orientation	60 cells (6 × 10)
Module Dimensions	1670 × 998 × 6 mm, 1674 × 1002 × 6 mm with edge banding 1676 × 1004 × 7.6 mm with corner protector
Weight	23.5 kg (51.8 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), High Transmission, low iron, Heat Strengthened Glass
Frame	Frameless
J-Box	IP 67, Photovoltaic Technology Cable 4.0 mm ² (0.006 inches ²)
Cables	Portrait: 90/180 mm, Landscape: 1550/1550 mm
Connector	MC4 Compatible

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.39%/°C
Temperature Coefficient of V_{OC}	-0.29%/°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	20A

(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: 660 pieces