

THE DUOMAX^{tw}

BIFACIAL DUAL GLASS 72-LAYOUT MODULE



72 LAYOUT
MONOCRYSTALLINE MODULE

350-370W
POWER OUTPUT RANGE

18.9%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

PRODUCTS	INSTALLATION METHODS	POWER RANGE
TSM-DEG14C(II)	CLAMP	350-370W

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

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



Low LCOE

- Maximize limited space, savings in BOS and labour cost
- Higher power generation from same installation footprint as standard modules
- 30 year linear warranty, 0.5% annual degradation



Wide application

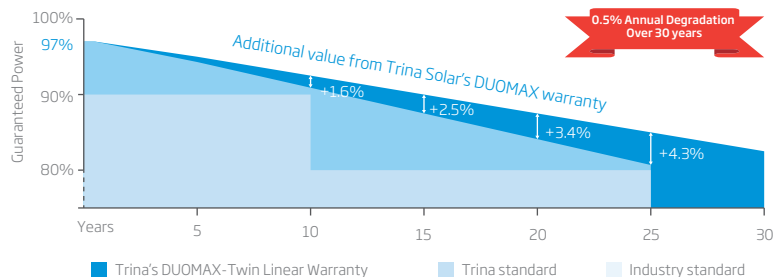
- Deployable for ground mounted utility, greenhouse, and agricultural projects
- Special application like sound barriers on expressways
- Compatible with major tracker systems



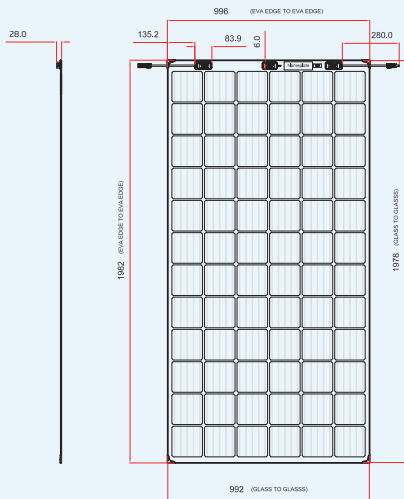
Environmental conditions

- Module coating resistant to sand, acid, and alkali
- High reliability for extreme weather installations

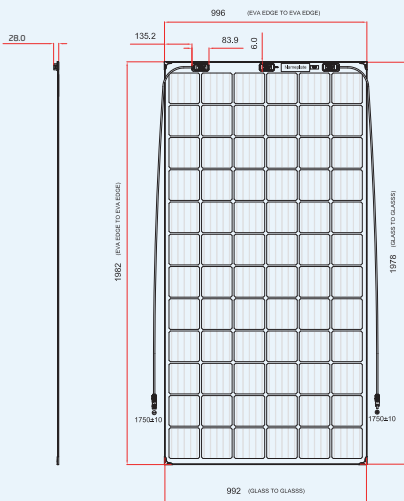
Trina Solar's DUOMAX-Twin Linear Performance Warranty



DIMENSIONS OF PV MODULE(mm)

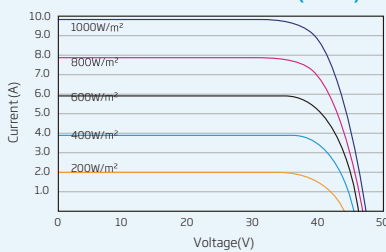


Back View (Portrait)

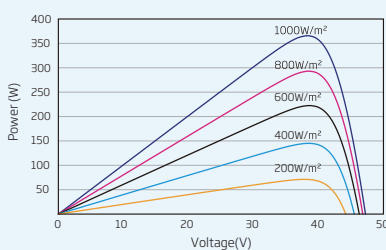


Back View (Landscape)

I-V CURVES OF PV MODULE(370W)



P-V CURVES OF PV MODULE(370W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)**	350	355	360	365	370
Power Output Tolerance- P_{MAX} (W)	0 ~ +5				
Maximum Power Voltage- V_{MPP} (V)	39.0	39.2	39.5	39.7	39.8
Maximum Power Current- I_{MPP} (A)	8.97	9.05	9.13	9.21	9.29
Open Circuit Voltage- V_{OC} (V)	47.5	47.7	47.9	48.1	48.3
Short Circuit Current- I_{SC} (A)	9.58	9.65	9.72	9.79	9.86
Module Efficiency η_m (%)	17.8	18.1	18.3	18.6	18.9

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

BI-FACIAL OUTPUT - Backside Power Gain

10%	Power Output(W)	385	391	396	402	407
	Module Efficiency(%)	19.6	19.9	20.1	20.4	20.6
15%	Power Output(W)	402	408	414	420	425
	Module Efficiency(%)	20.4	20.8	21.0	21.4	21.5
25%	Power Output(W)	437	444	450	456	462
	Module Efficiency(%)	22.2	22.6	22.9	23.2	23.4

ELECTRICAL DATA (NOCT)

Maximum Power- P_{MAX} (Wp)	259	263	267	270	274
Maximum Power Voltage- V_{MPP} (V)	36.2	36.4	36.6	36.7	36.9
Maximum Power Current- I_{MPP} (A)	7.17	7.23	7.30	7.36	7.42
Open Circuit Voltage- V_{OC} (V)	44.8	45.0	45.2	45.4	45.6
Short Circuit Current- I_{SC} (A)	7.74	7.80	7.85	7.91	7.97

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

MECHANICAL DATA

Solar Cells	Monocrystalline 156.75 × 156.75 mm (6.17inches)
Cell Orientation	72 cells (6 × 12)
Module Dimensions	1978 × 992 × 6 mm (77.87×39.05×0.24 inches) 1982 × 996 × 6 mm (78.03×39.21×0.24 inches) with edge banding 1984 × 998 × 7.6 mm (78.11×39.29×0.29 inches) with corner protector(Std)
Weight	28.0kg (61.6 lb)
Front Glass	2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE/EVA (Transparent)
Back Glass	2.5 mm (0.10 inches),white grid coated, Heat Strengthened Glass
Frame	Frameless
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm ² (0.006 inches ²) Portrait: 280/280 mm(11.02 /11.02 inches) Landscape: 1750/1750 mm(68.89 /68.89 inches)
Connector	TrinaTS4

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 SystemVoltage	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: 33pieces
Modules per 40' container:726 pieces

* Back-side power gain varies depending upon the specific project albedo

