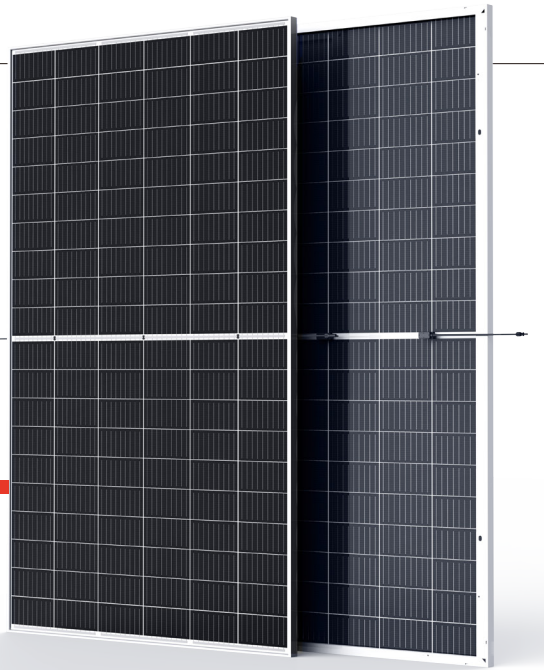


THE

DUOMAX twin

BIFACIAL DUAL GLASS 120 HALF-CELL MODULE



120-Cell

MONOCRYSTALLINE MODULE

315-340W

POWER OUTPUT RANGE

19.7%

MAXIMUM EFFICIENCY

0~+5W

POSITIVE POWER TOLERANCE

PRODUCTS

TSM-DEG6MC.20(II)

POWER RANGE

315-340W

Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

Comprehensive Products and System Certificates

IEC61215/IEC61730/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

- Up to 340W front power and 19.7% module efficiency with half-cut technology enabling higher BOS savings
- Lower resistance of half-cut cells ensures higher power



Certified to perform in highly challenging environments

- High PID resistance through cell process and module material control
- Resistant to salt, acid, sand, and ammonia
- Proven to be reliable in high temperature and humidity areas
- Certified to the best fire class A
- Minimizes micro-crack and snail trails
- Certified to 5400 Pa positive load and 2400 Pa negative load



High energy generation, low LCOE

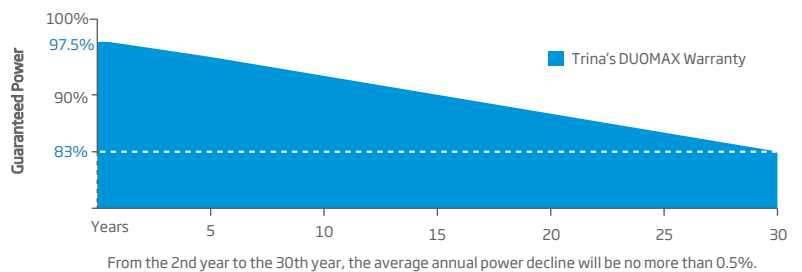
- Up to 25% additional power gain from back side, depending on the albedo
- Excellent 3rd party validated IAM and low light performance with cell process and module material optimization
- Low temp coefficient (-0.35%) and NMOT increases energy production
- Better anti-shading performance and lower operating temperature
- Higher power from same installation footprint as standard modules



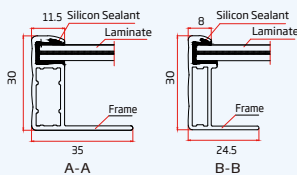
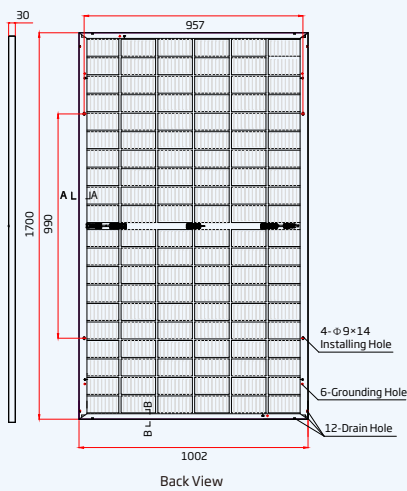
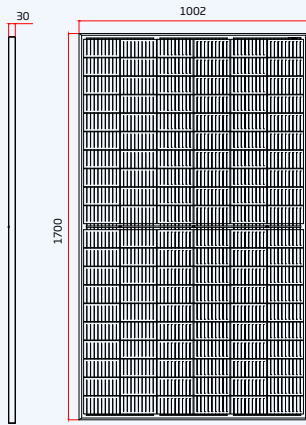
Easy to install, wide application

- Frame design enables compatibility with standard installation methods
- Deployable for ground mounted utility, carports, and agricultural projects
- Safe and easy to transport, handle, and install like normal framed modules

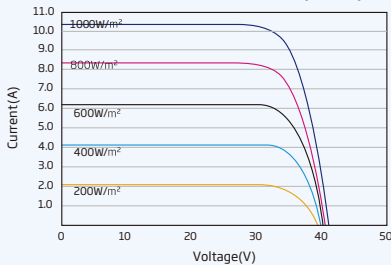
Trina Solar's DUOMAX Performance Warranty



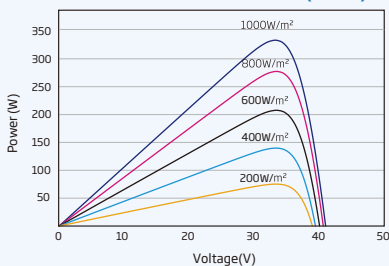
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(335W)



P-V CURVES OF PV MODULE(335W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	315	320	325	330	335	340
Power Output Tolerance- P_{MAX} (W)	0 ~ +5					
Maximum Power Voltage- V_{MPP} (V)	32.9	33.2	33.5	33.8	34.1	34.4
Maximum Power Current- I_{MPP} (A)	9.58	9.64	9.71	9.77	9.83	9.89
Open Circuit Voltage- V_{OC} (V)	40.0	40.2	40.4	40.6	40.8	41.0
Short Circuit Current- I_{SC} (A)	10.15	10.20	10.25	10.30	10.35	10.40
Module Efficiency η_m (%)	18.3	18.6	18.9	19.1	19.4	19.7

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

*Measuring tolerance: ±3%.

ELECTRICAL DATA (NMOT)

Maximum Power- P_{MAX} (Wp)	239	242	246	250	254	257
Maximum Power Voltage- V_{MPP} (V)	31.1	31.4	31.7	31.9	32.2	32.4
Maximum Power Current- I_{MPP} (A)	7.67	7.72	7.77	7.83	7.89	7.93
Open Circuit Voltage- V_{OC} (V)	37.8	38.0	38.2	38.4	38.6	38.7
Short Circuit Current- I_{SC} (A)	8.17	8.21	8.25	8.29	8.33	8.37

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

Electrical characteristics with different rear side power gains (referenced specific to 335 Wp front)**

Maximum Power- P_{MAX} (Wp)	352	369	385	402	419
Maximum Power Voltage- V_{MPP} (V)	34.1	34.1	34.1	34.1	34.1
Maximum Power Current- I_{MPP} (A)	10.32	10.81	11.30	11.80	12.29
Open Circuit Voltage- V_{OC} (V)	40.9	41.0	41.0	41.1	41.2
Short Circuit Current- I_{SC} (A)	10.87	11.39	11.9	12.42	12.94
Pmax gain	5%	10%	15%	20%	25%

Power Bifaciality: 70±5%.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	120 cells (6 × 20)
Module Dimensions	1700 × 1002 × 30 mm (66.93 × 39.45 × 1.18 inches)
Weight	22.0 kg (48.5lb)
Front Glass	2.0mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	POE/EVA
Back Glass	2.0mm (0.08 inches), Heat Strengthened Glass (white Grid Glass)
Frame	30 mm (1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²) Portrait: N 280mm/P 280mm(11.02/11.02 inches) Landscape: N 1700 mm /P 1700 mm (66.93/66.93 inches)
Connector	Trina TS4/MC4

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of P_{MAX}	-0.35%/°C
Temperature Coefficient of V_c	-0.25%/°C
Temperature Coefficient of I_{SC}	0.04%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC) 1500V DC (UL)
Max Series Fuse Rating	20A

WARRANTY

12 year Product Workmanship Warranty

30 year Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 35 pieces

Modules per 40' container: 770 pieces

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