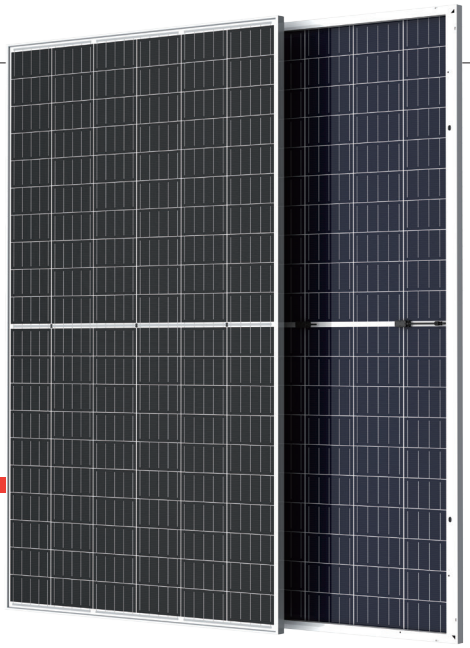


THE DUOMAX twin

BIFACIAL DUAL GLASS 120 LAYOUT MODULE

PRODUCTS	POWER RANGE
TSM-DEG6HC.20(II)	315-335W

120 LAYOUT
MONOCRYSTALLINE MODULE

315-335W
POWER OUTPUT RANGE

19.7%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

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/UL1703
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

- Up to 335W front power and 19.7% module efficiency with half-cut technology bringing more BOS savings
- Lower resistance of half-cut ensure high power

High reliability

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Proven to be reliable in high temperature and humidity areas
- Certificated to fire class A
- Minimizes micro-crack and snail trails
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

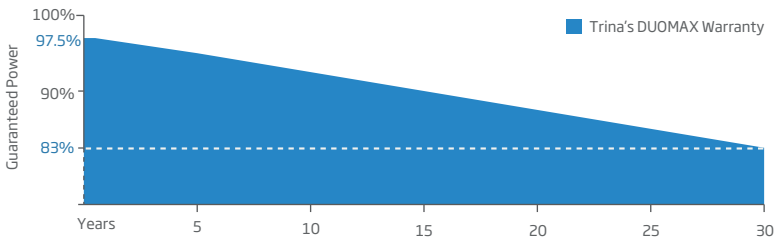
High energy generation

- Up to 25% additional power gain from back side depending on the albedo ;
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower temp coefficient (-0.35%) and NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature

Easy to install

- Frame design makes module compatible with all racking and installation methods
- Easy to handle and install as normal framed module during transportation

Trina Solar's DUOMAX Performance Warranty



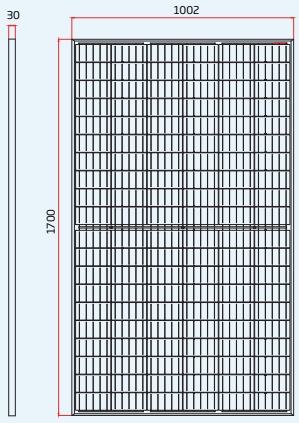
From the 2nd year to the 30th year, the average annual power decline will be no more than 0.5%.

Trinasolar

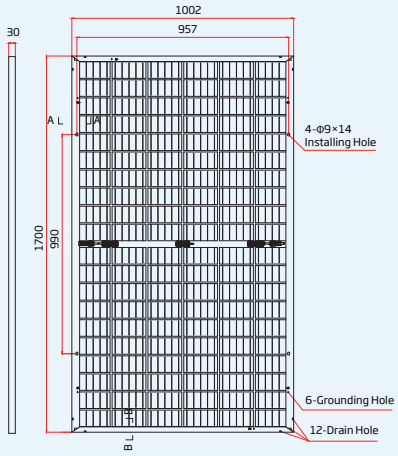
DUOMAX twin

120 LAYOUT MODULE

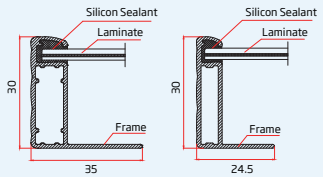
DIMENSIONS OF PV MODULE(mm)



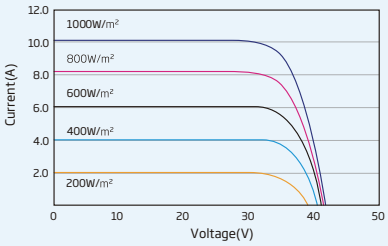
Front View



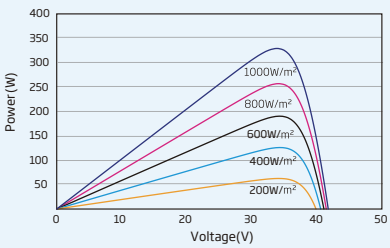
Back View



I-V CURVES OF PV MODULE(330W)



P-V CURVES OF PV MODULE(330W)



ELECTRICAL DATA (STC)

Peak Power Watts-P_{MAX} (Wp)*	315	320	325	330	335
Power Output Tolerance-P_{MAX} (W)	0 ~ +5				
Maximum Power Voltage-V_{MPP} (V)	33.7	33.9	34.1	34.2	34.4
Maximum Power Current-I_{MPP} (A)	9.35	9.45	9.54	9.64	9.74
Open Circuit Voltage-V_{OC} (V)	40.7	40.9	41.1	41.2	41.4
Short Circuit Current-I_{SC} (A)	9.98	10.08	10.18	10.28	10.38
Module Efficiency η_m (%)	18.5	18.8	19.1	19.4	19.7

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

Electrical characteristics with different rear side power gain (reference to 330 Wp front)

Maximum Power-P_{MAX} (Wp)	347	363	380	396	413
Maximum Power Voltage-V_{MPP} (V)	34.2	34.2	34.2	34.2	34.2
Maximum Power Current-I_{MPP} (A)	10.12	10.60	11.09	11.57	12.05
Open Circuit Voltage-V_{OC} (V)	41.3	41.4	41.4	41.4	41.5
Short Circuit Current-I_{SC} (A)	10.75	11.27	11.78	12.29	12.80
Pmax gain	5%	10%	15%	20%	25%

Power Bifaciality:70±5%.

ELECTRICAL DATA (NMOT)

Maximum Power-P_{MAX} (Wp)	239	243	247	250	254
Maximum Power Voltage-V_{MPP} (V)	31.7	31.9	32.1	32.2	32.4
Maximum Power Current-I_{MPP} (A)	7.52	7.60	7.68	7.76	7.84
Open Circuit Voltage-V_{OC} (V)	38.4	38.6	38.8	38.9	39.1
Short Circuit Current-I_{SC} (A)	8.04	8.12	8.20	8.28	8.36

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

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 (48.5 lb)
Front Glass	2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	POE / EVA
Back Glass	2.0 mm (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 4.0 mm² (0.006 inches²) Portrait: 280/280 mm (11.02/11.02 inches), Landscape: 1700/1700 mm (66.93/66.93 inches)
Connector	MC4 /TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

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

MAXIMUM RATINGS

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

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

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: 910 pieces

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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Version number: TSM_EN_2020_A

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