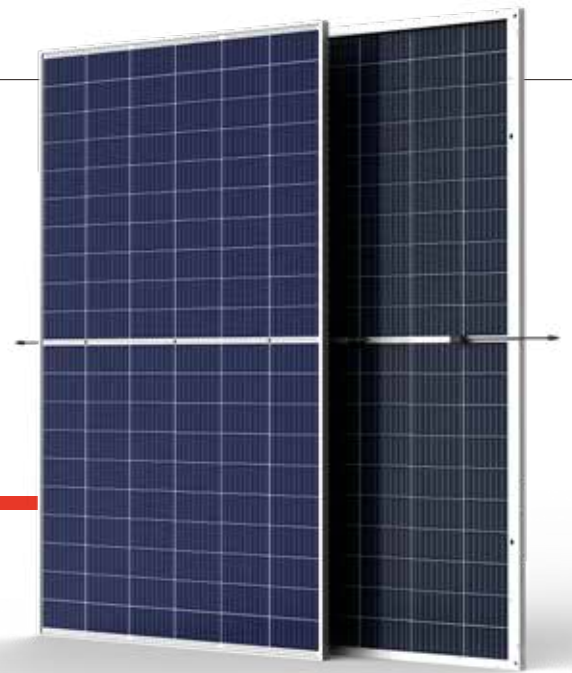


THE

DUOMAX twin

HALF-CELL DUAL GLASS 60 LAYOUT MODULE



60 LAYOUT
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



High power output

- Combined with MBB technology, maximum 340W
- Reduce BOS cost with higher power bin and 1500V system voltage



Half-cell design brings higher efficiency

- Half-cell layout (120 monocrystalline)
- Low thermal coefficients for greater energy production at high operating temperature
- Low cell connection power loss due to half-cell layout (120 monocrystalline)
- Passivated Emitter and Rear Cell (PERC Technology)



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF etc)
- Internal test requirement of Trina more stringent than certification authority
- PID resistant
- 100% EL double inspection



Certified to withstand the most challenging environmental conditions

- Resistant to sand, acid, alkaline
- 2400 Pa negative load
- 2400 Pa positive load(no back shading)
- * 2400/2400 is the measured load,and the safety factor is 1.5 times

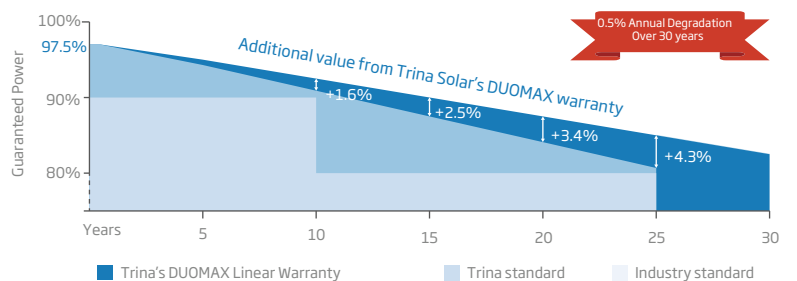
Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable 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

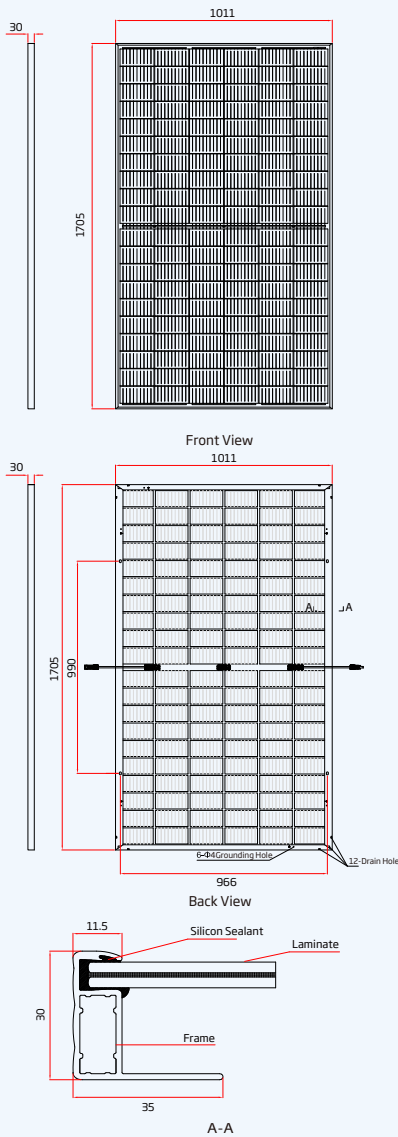
- IEC61215/IEC61730/IEC61701/IEC62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System



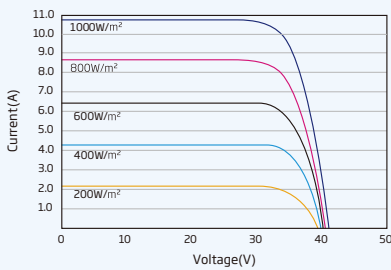
Trina Solar's DUOMAX Linear Performance Warranty



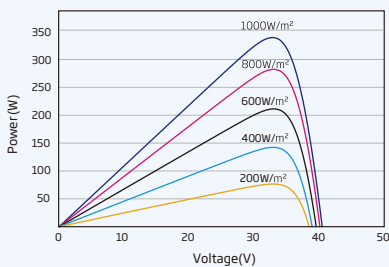
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(340W)



P-V CURVES OF PV MODULE(340W)



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%.

BI-FACIAL OUTPUT - Backside Power Gain

	Power Output(W)	347	352	358	363	369	374
10%	Module Efficiency(%)	20.1	20.4	20.8	21.1	21.4	21.7
15%	Power Output(W)	362	368	374	380	385	391
	Module Efficiency(%)	21.0	21.3	21.7	22.0	22.3	22.7
25%	Power Output(W)	394	400	406	413	419	425
	Module Efficiency(%)	22.9	23.2	23.6	24.0	24.3	24.7

ELECTRICAL DATA (NMOT)

Maximum Power- P_{MAX} (Wp)	238	241	245	249	253	256
Maximum Power Voltage- V_{MPP} (V)	31.1	31.4	31.6	31.9	32.2	32.5
Maximum Power Current- I_{MPP} (A)	7.64	7.69	7.75	7.80	7.84	7.89
Open Circuit Voltage- V_{OC} (V)	38.1	38.3	38.5	38.7	38.9	39.1
Short Circuit Current- I_{SC} (A)	8.18	8.23	8.27	8.31	8.35	8.39

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	1705 × 1011 × 30 mm (67.13 × 39.80 × 1.18 inches)
Weight	26.4 kg (58.2lb)
Front Glass	2.5mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	POE/EVA
Back Glass	2.5mm (0.10 inches), Heat Strengthened 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(11.02/11.02inches) Landscape: N 1700 mm /P 1700 mm (66.93/66.93 inches)
Connector	TS4/MC4 EVO2

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of P_{MAX}	-0.37%/°C
Temperature Coefficient of V_{OC}	-0.29%/°C
Temperature Coefficient of I_{SC}	0.05%/°C

(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)

MAXIMUM RATINGS

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

PACKAGING CONFIGURATION

- Modules per box: 32 pieces
- Modules per 40' container: 768 pieces