THE

DUOMAX

FRAMED 60 LAYOUT MODULE

PRODUCTS	POWER RANGE
TSM-PEG6H	285-300W
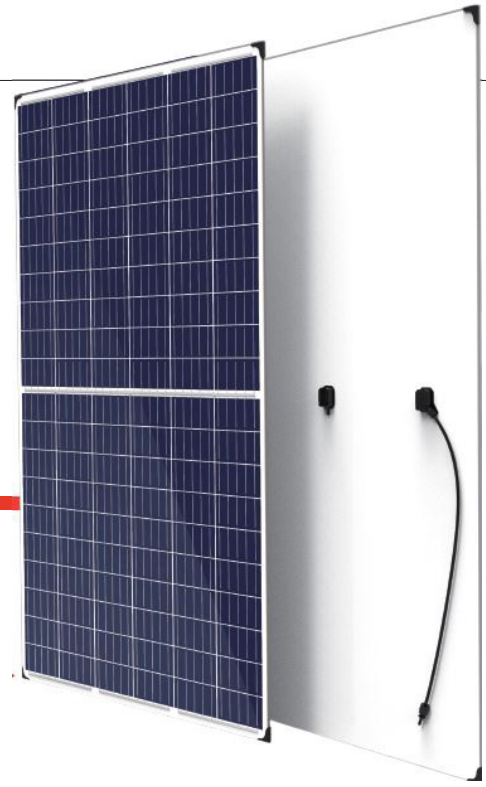
60 LAYOUT
MONOCRYSTALLINE MODULE

285-300W
POWER OUTPUT RANGE

17.6%
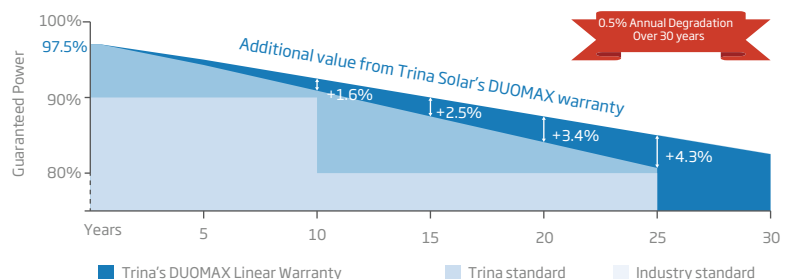MAXIMUM EFFICIENCY

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.
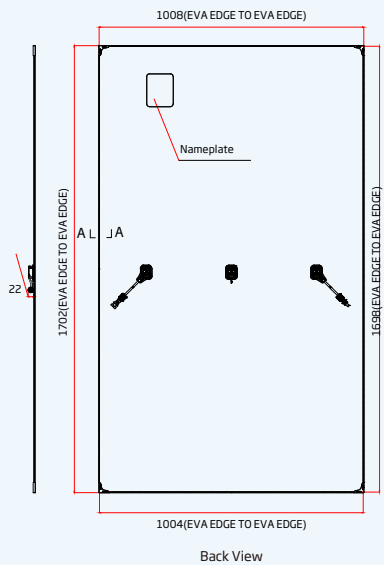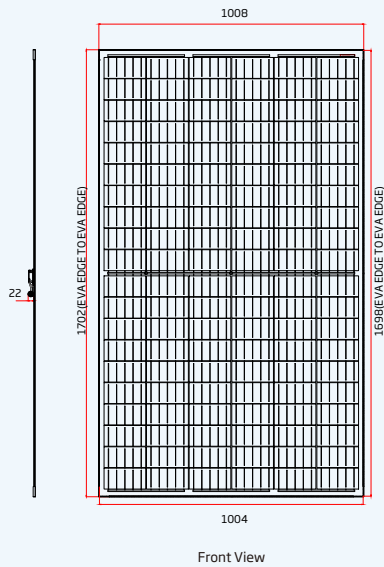
Comprehensive Products and System Certificates

IEC61215/IEC61730/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

Ideal for large scale installations
• Reduce BOS cost with higher power bin and 1500V system voltage

Half-cell design brings higher efficiency
• Low thermal coefficients for greater energy production at high operating temperature
• Low cell connection power losses due to half-cell layout (120 monocrystalline)

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
• 2400 Pa negative load
• 5400 Pa positive load
* 2400/5400 is the measured load,and the safety factor is 1.5 times

Trina Solar's DUOMAX Linear Performance Warranty

Additional value from Trina Solar's DUOMAX warranty
+1.6% +2.5% +3.4% +4.3%
0.5% Annual Degradation Over 30 years
100% 97.5% 90% 80%
Guaranteed Power
Years 5 10 15 20 25 30
■ Trina's DUOMAX Linear Warranty ■ Trina standard ■ Industry standard

DIMENSIONS OF PV MODULE(mm)

Front View

Back View

I-V CURVES OF PV MODULE(290W)
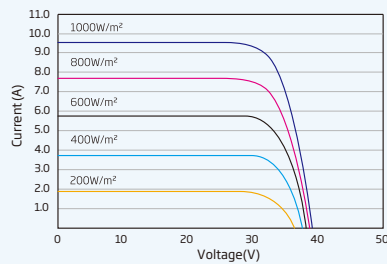
P-V CURVES OF PV MODULE(290W)
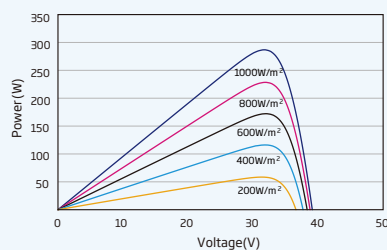
ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	285	290	295	300
Power Output Tolerance-PMAX (W)	0 ~ +5			
Maximum Power Voltage-VMPP (V)	31.5	31.8	32.1	32.3
Maximum Power Current-IMPP (A)	9.05	9.12	9.19	9.29
Open Circuit Voltage-VOC (V)	38.8	39.2	39.5	39.8
Short Circuit Current-ISC (A)	9.53	9.60	9.67	9.77
Module Efficiency η m (%)	16.7	17.0	17.3	17.6

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

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)	216	219	223	227
Maximum Power Voltage-VMPP (V)	29.8	30.1	30.4	30.6
Maximum Power Current-IMPP (A)	7.24	7.29	7.35	7.42
Open Circuit Voltage-VOC (V)	36.5	36.9	37.2	37.4
Short Circuit Current-ISC (A)	7.69	7.74	7.80	7.88

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

MECHANICAL DATA

Solar Cells	Multicrystalline
Cell Orientation	120 cells (6 × 20)
Module Dimensions	1698 × 1004 × 6 mm (66.85 × 39.53 × 0.24 inches) 1702×1008×6 mm with edgebanding(67.01×39.69×0.24 inches) 1704×1010×7.6 mm with corner(67.09×39.76×0.30 inches)
Weight	24.6kg (54.2 lb)
Front Glass	2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Back Glass	2.5 mm (0.10 inches), Heat Strengthened Glass
Frame	Frameless
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: N 140mm/P 285mm (5.51/11.22inches) Landscape: N 1200 mm /P 1200 mm (47.24/47.24 inches)
Connector	MC4 EVO2 /TS4

TEMPERATURE RATINGS

NMOT (Nominal Module OperatingTemperature)	41°C (±3°C)
Temperature Coefficient of PMAX	- 0.38%/°C
Temperature Coefficient of VOC	- 0.31%/°C
Temperature Coefficient of ISC	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: 33 pieces
Modules per 40' container: 792 pieces

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