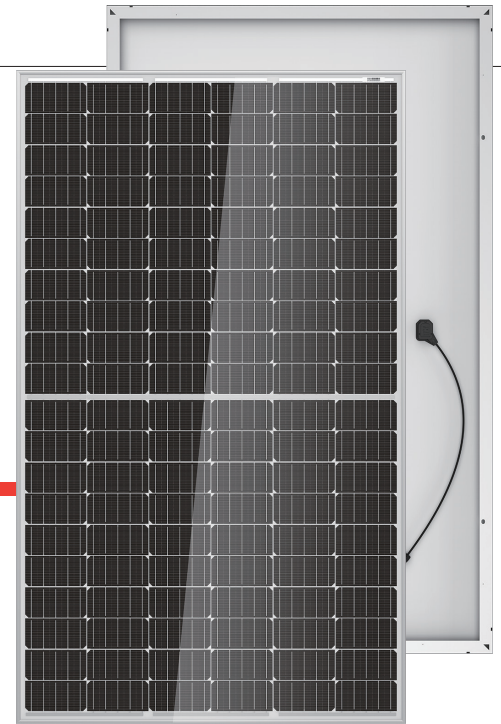


THE Honey^M

FRAMED 60 LAYOUT MODULE



60 LAYOUT MONOCRYSTALLINE MODULE

290-325W
POWER OUTPUT RANGE

19.6%
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



PRODUCTS	COLOR OF FRAME	POWER RANGE
TSM-DE05H(II)	Silver	290-325W
TSM-DE05H.08(II)	Black	290-325W



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 loss 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

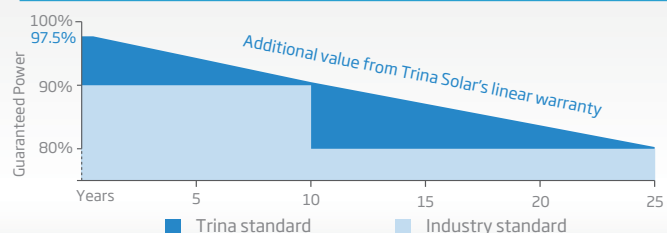


Certified to withstand the most challenging environmental conditions

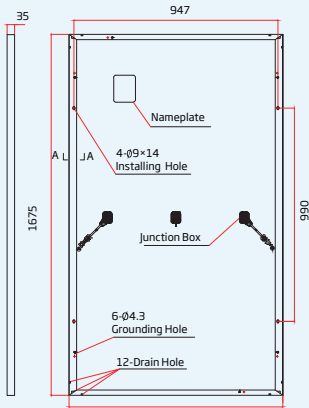
- 2400 Pa negative load
- 5400 Pa positive load

LINEAR PERFORMANCE WARRANTY

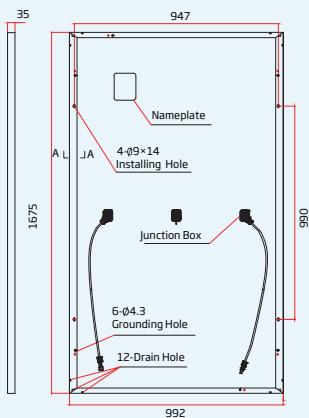
10 Year Product Warranty · 25 Year Linear Power Warranty



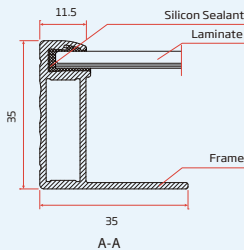
DIMENSIONS OF PV MODULE(mm)



Back View (Portrait)

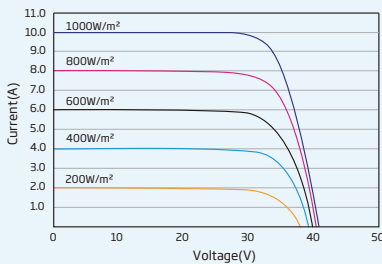


Back View (Landscape)

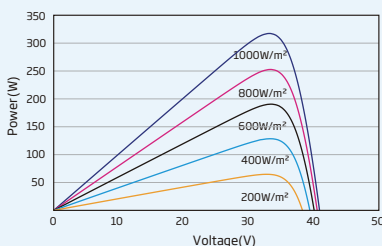


A-A

I-V CURVES OF PV MODULE(315W)



P-V CURVES OF PV MODULE(315W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	290	295	300	305	310	315	320	325
Power Output Tolerance- P_{MAX} (W)	0 ~ +5							
Maximum Power Voltage- V_{MPP} (V)	31.9	32.1	32.4	32.6	32.9	33.1	33.3	33.7
Maximum Power Current- I_{MPP} (A)	9.09	9.19	9.27	9.36	9.43	9.51	9.60	9.65
Open Circuit Voltage- V_{OC} (V)	39.1	39.5	39.7	40.0	40.2	40.4	40.6	41.4
Short Circuit Current- I_{SC} (A)	9.55	9.65	9.70	9.75	9.83	9.93	10.00	10.07
Module Efficiency η_m (%)	17.5	17.8	18.1	18.4	18.7	19.0	19.3	19.6

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

*Measuring tolerance: $\pm 3\%$.

ELECTRICAL DATA (NMOT)

Maximum Power- P_{MAX} (Wp)	219	222	226	230	234	237	241	245
Maximum Power Voltage- V_{MPP} (V)	30.1	30.4	30.7	31.0	31.2	31.3	31.6	32.0
Maximum Power Current- I_{MPP} (A)	7.26	7.32	7.39	7.44	7.50	7.58	7.64	7.67
Open Circuit Voltage- V_{OC} (V)	36.8	37.2	37.4	37.7	37.8	38.0	38.2	39.0
Short Circuit Current- I_{SC} (A)	7.70	7.78	7.82	7.86	7.93	8.01	8.06	8.12

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	1675 × 992 × 35 mm (65.94 × 39.06 × 1.38 inches)
Weight	18.8 kg (41.4 lb)
Glass	3.2 mm (0.13 inches)
Encapsulant Material	EVA(White/Transparent)
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: N 140mm/P 285mm(5.51/11.22inches) Landscape: N 1200 mm /P 1200 mm (47.24/47.24 inches)
Connector	TS4/MC4-EV02

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	41°C ($\pm 3^\circ\text{C}$)
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)

MAXIMUM RATINGS

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

WARRANTY

10 year Product Workmanship Warranty
25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 30 pieces
Modules per 40' container: 780 pieces