

THE Honey

FRAMED 60-CELL MODULE

60 CELL MULTICRYSTALLINE MODULE

270-285W POWER OUTPUT RANGE

17.4% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

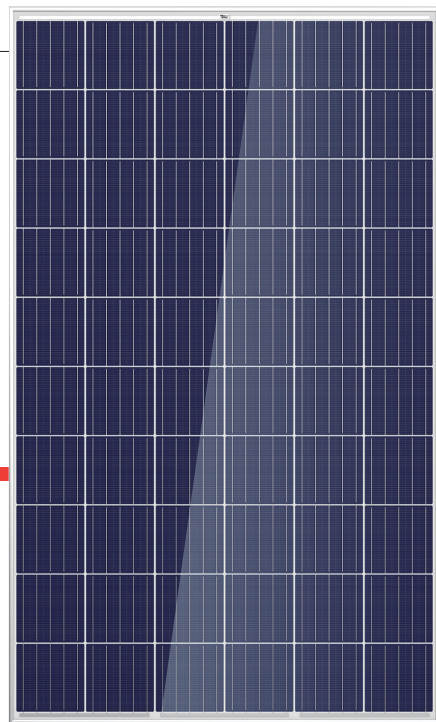
Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable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



Trinasolar



Our most versatile product

- Compatible with all major BOS components and system designs
- 1000V UL/1000V IEC certified



Maximize Limited Space

- Up to 174 W/m² power density



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant
- 100% EL double inspection

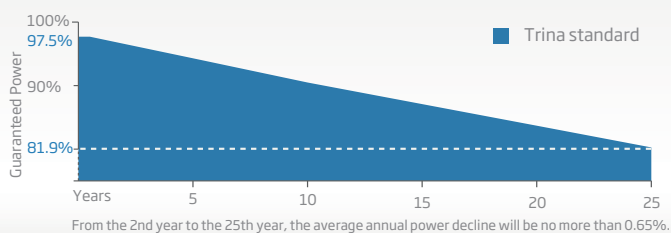


Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load

PERFORMANCE WARRANTY

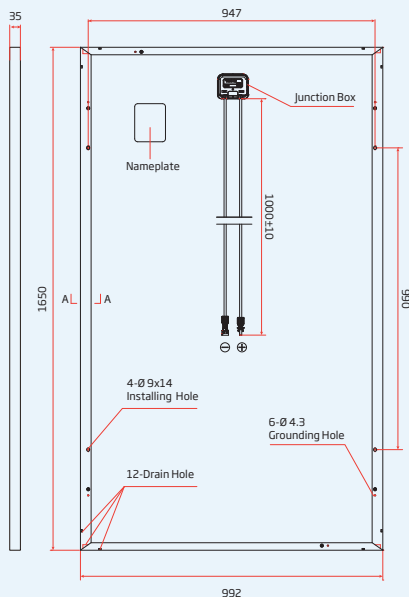
10 Year Product Warranty · 25 Year Power Warranty



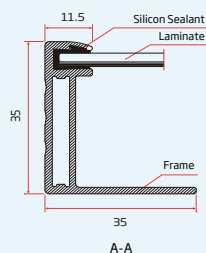
PRODUCTS POWER RANGE

TSM-PD05 | 270-285W

DIMENSIONS OF PV MODULE(mm)

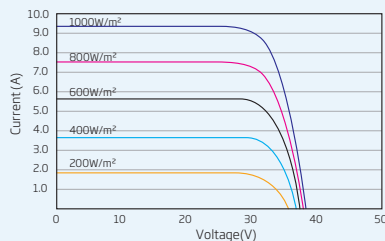


Back View

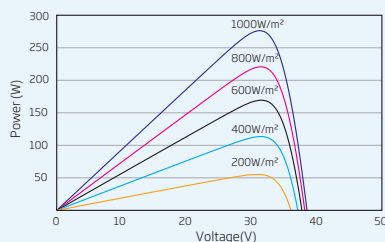


A-A

I-V CURVES OF PV MODULE(280W)



P-V CURVES OF PV MODULE(280W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	270	275	280	285
Power Output Tolerance- P_{MAX} (W)	0 ~ +5			
Maximum Power Voltage- V_{MPP} (V)	30.9	31.1	31.4	31.6
Maximum Power Current- I_{MPP} (A)	8.73	8.84	8.92	9.02
Open Circuit Voltage- V_{OC} (V)	37.9	38.1	38.2	38.8
Short Circuit Current- I_{SC} (A)	9.22	9.32	9.40	9.43
Module Efficiency η_m (%)	16.5	16.8	17.1	17.4

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

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

ELECTRICAL DATA (NMOT)

Maximum Power- P_{MAX} (Wp)	203	207	211	214
Maximum Power Voltage- V_{MPP} (V)	29.0	29.2	29.3	29.5
Maximum Power Current- I_{MPP} (A)	7.01	7.09	7.17	7.26
Open Circuit Voltage- V_{OC} (V)	35.5	35.7	35.8	35.9
Short Circuit Current- I_{SC} (A)	7.43	7.51	7.58	7.65

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

MECHANICAL DATA

Solar Cells	Multicrystalline
Cell Orientation	60 cells (6 × 10)
Module Dimensions	1650 × 992 × 35 mm (65.0 × 39.1 × 1.38 inches)
Weight	18.0 kg (39.7 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy;
J-Box	IP 67 or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), 1000 mm (39.4 inches)
Connector	MC4/TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	44°C ($\pm 2^\circ\text{C}$)
Temperature Coefficient of P_{MAX}	- 0.41%/°C
Temperature Coefficient of V_{OC}	- 0.32%/°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	1000V DC (IEC) 1000V DC (UL)
Max Series Fuse Rating	15A

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: 840 pieces