

THE Honey

FRAMED 60-CELL MODULE

60 CELL
MULTICRYSTALLINE MODULE

260-280W
POWER OUTPUT RANGE

17.1%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading comprehensive solutions provider for solar energy. We believe close cooperation with our partners is critical to success. Trina Solar now distributes its PV products to over 60 countries all over the world. Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

Comprehensive Products And System Certificates

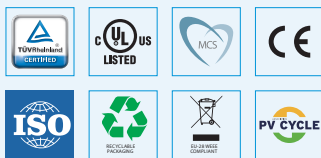
IEC61215/IEC61730/UL1703/IEC61701/IEC62716

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO14064: Greenhouse gases Emissions Verification

OHSAS 18001: Occupation Health and Safety Management System



Our most versatile product

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



Maximize Limited Space

- 60-cell module power output up to 280W
- Up to 171 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

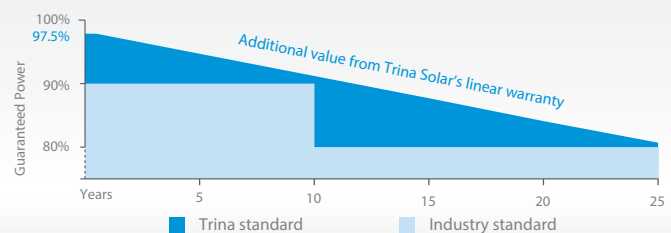


Certified to withstand the most challenging environmental conditions

- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty · 25 Year Linear Power Warranty

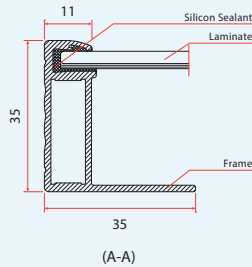
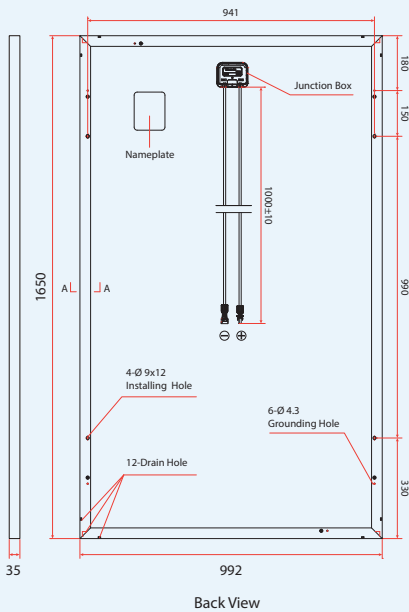
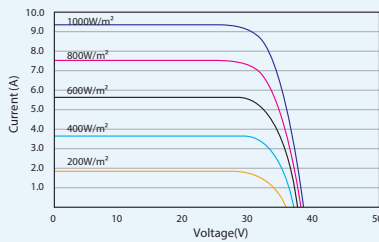
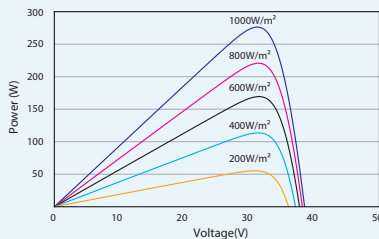


PRODUCTS

TSM-PD05
TSM-PD05.08
TSM-PD05.05

POWER RANGE

265-280W
265-280W
260-275W

DIMENSIONS OF PV MODULE(mm)

I-V CURVES OF PV MODULE(280W)

P-V CURVES OF PV MODULE(280W)

ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	260	265	270	275	280
Power Output Tolerance- P_{MAX} (W)	0 ~ +5				
Maximum Power Voltage- V_{MPP} (V)	30.6	30.8	30.9	31.1	31.4
Maximum Power Current- I_{MPP} (A)	8.50	8.61	8.73	8.84	8.92
Open Circuit Voltage- V_{OC} (V)	38.2	38.3	38.4	38.5	38.7
Short Circuit Current- I_{SC} (A)	9.00	9.10	9.18	9.25	9.34
Module Efficiency η_p (%)	15.9	16.2	16.5	16.8	17.1

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

ELECTRICAL DATA (NOCT)

Maximum Power- P_{MAX} (Wp)	193	197	200	204	207
Maximum Power Voltage- V_{MPP} (V)	28.4	28.6	28.7	29.0	29.2
Maximum Power Current- I_{MPP} (A)	6.81	6.89	6.97	7.03	7.10
Open Circuit Voltage- V_{OC} (V)	35.4	35.5	35.5	35.6	35.8
Short Circuit Current- I_{SC} (A)	7.27	7.35	7.41	7.47	7.55

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

MECHANICAL DATA

Solar Cells	Multicrystalline 156.75 × 156.75 mm (6 inches)
Cell Orientation	60 cells (6 × 10)
Module Dimensions	1650 × 992 × 35 mm (65.0 × 39.1 × 1.38 inches)
Weight	18.6 kg (41.0 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White (PD05, PD05.08); Black (PD05.05)
Frame	Silver Anodized Aluminium Alloy (PD05); Black Anodized Aluminium Alloy (PD05.08, PD05.05)
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

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell 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

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC (IEC) 1000V DC (UL)
Max Series Fuse Rating	15A

(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

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