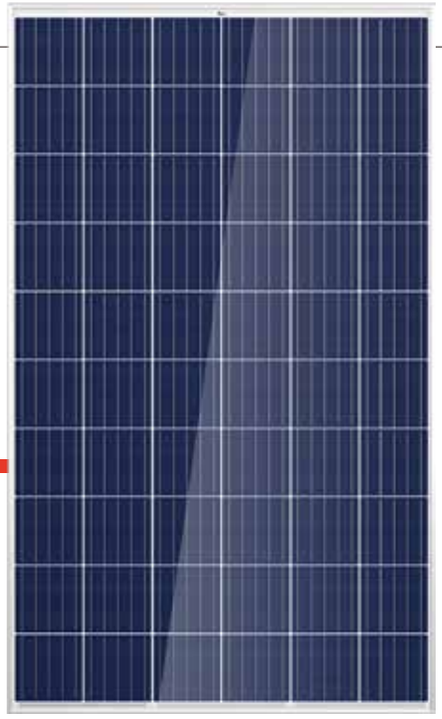
THE Honey

FRAMED 60-CELL MODULE



60CELL
MULTI CRYSTALLINE

260-285W
POWER OUTPUT RANGE

17.4%
MAXIMUM EFFICIENCY

0~+5W
POWER SELECTION

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
- Up to 174 W/m² power density

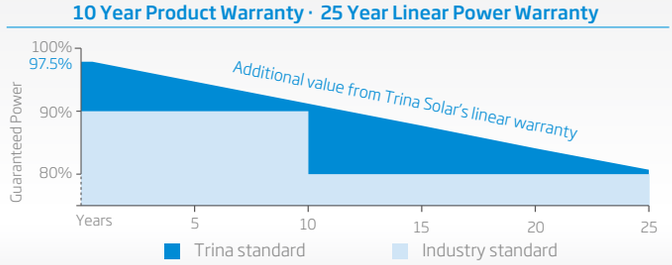
Highly reliable due to stringent quality control
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant and fire class rating C
- 100% EL double inspection

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

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty · 25 Year Linear Power Warranty



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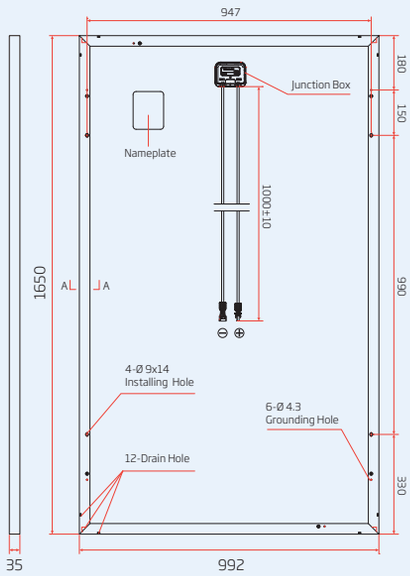
Honey

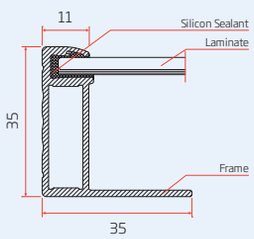
FRAMED 60-CELL MODULE

PRODUCTS	POWER RANGE
TSM-PD05	260-285W
TSM-PD05.08	260-285W
TSM-PD05.05	260-280W

DIMENSIONS OF PV MODULE(mm)

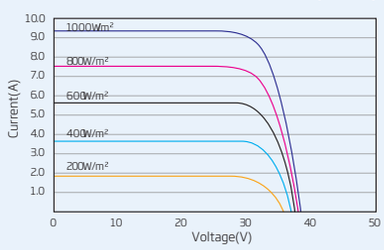


BackView

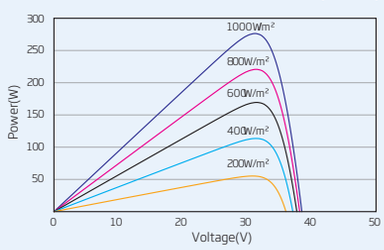


(A-A)

I-V CURVES OF PV MODULE(280W)



P-V CURVES OF PV MODULE(280W)



ELECTRICAL DATA (STC)

Peak Power Watts-P_{MAX} (Wp)*	260	265	270	275	280	285
Power Selection-P_{MAX}(W)	0 ~ +5					
Maximum Power Voltage-V_{MPP} (V)	30.6	30.8	30.9	31.1	31.4	31.6
Maximum Power Current-I_{MPP} (A)	8.50	8.61	8.73	8.84	8.92	9.02
Open Circuit Voltage-V_{OC} (V)	37.6	37.7	37.9	38.1	38.2	38.8
Short Circuit Current-I_{SC} (A)	9.13	9.15	9.22	9.32	9.40	9.43
Module Efficiency η_m (%)	15.9	16.2	16.5	16.8	17.1	17.4

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

ELECTRICAL DATA (NMOT)

Maximum Power-P_{MAX} (Wp)	197	200	203	207	211	214
Maximum Power Voltage-V_{MPP} (V)	28.6	28.7	29.0	29.2	29.3	29.5
Maximum Power Current-I_{MPP} (A)	6.89	6.94	7.01	7.09	7.17	7.26
Open Circuit Voltage-V_{OC} (V)	35.1	35.3	35.5	35.7	35.8	35.9
Short Circuit Current-I_{SC} (A)	7.35	7.38	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 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 4.0mm² (0.006 inches²), 1000 mm (39.4 inches)
Connector	Genuine MC4

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	41°C (±3°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

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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Country of Origin: China

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