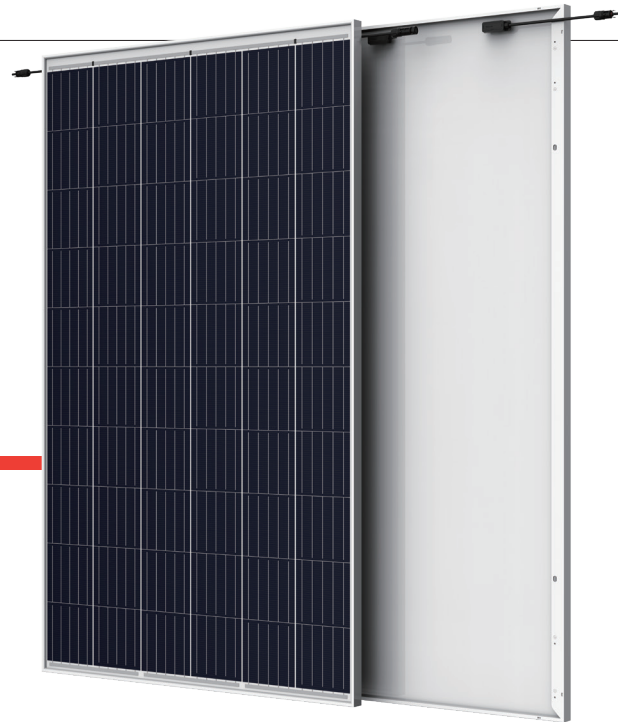


# THE Honey

## FRAMED 60-CELL MODULE



**60 CELL**  
MULTICRYSTALLINE MODULE

**260-285W**  
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/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 IEC certified



### Maximize Limited Space

- Up to 174W/m<sup>2</sup> power density



### Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- Fire class rating C
- 100% EL double inspection



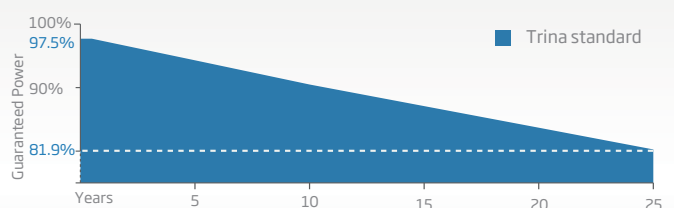
### Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load

\* 2400/5400 is the measured load, and the safety factor is 1.5 times

### PERFORMANCE WARRANTY

10 Year Product Warranty · 25 Year Power Warranty

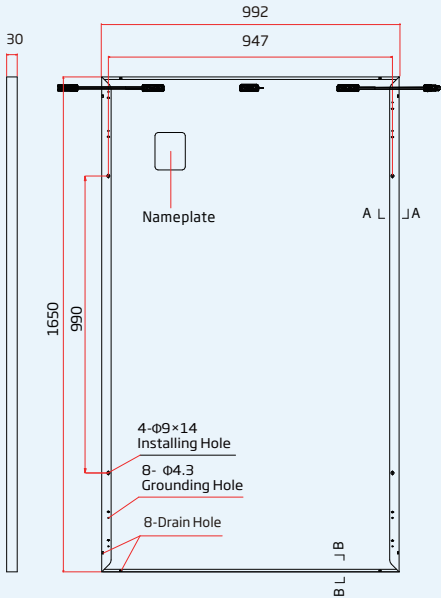


From the 2nd year to the 25th year, the average annual power decline will be no more than 0.65%.

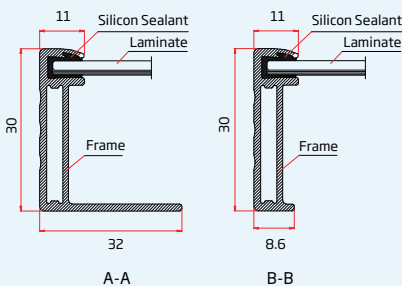
### PRODUCTS POWER RANGE

TSM-PD05	260-285W
TSM-PD05.08	260-285W

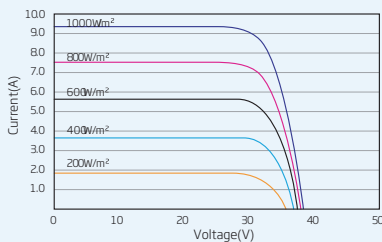
### DIMENSIONS OF PV MODULE(mm)



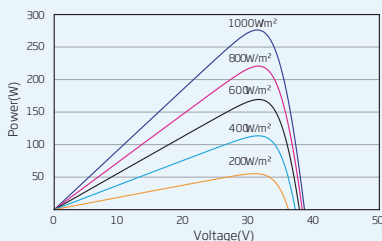
### Back View



### 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 $\eta_m$ (%)	15.9	16.2	16.5	16.8	17.1	17.4

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.  
\*Measuring tolerance: ±3%.

### ELECTRICAL DATA (NOCT)

Maximum Power- $P_{MAX}$ (Wp)	193	197	200	204	208	211
Maximum Power Voltage- $V_{MPP}$ (V)	28.3	28.5	28.6	28.8	29.0	29.1
Maximum Power Current- $I_{MPP}$ (A)	6.82	6.90	7.00	7.09	7.15	7.26
Open Circuit Voltage- $V_{OC}$ (V)	34.8	34.9	35.1	35.3	35.4	35.5
Short Circuit Current- $I_{SC}$ (A)	7.37	7.39	7.44	7.52	7.59	7.66

NOCT: Irradiance at 800W/m<sup>2</sup>, 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 × 30 mm (65.0 × 39.1 × 1.18 inches)
Weight	16.6 kg (36.6 lb)
Glass	2.8 mm (0.11 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 68 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ), Length can be customized
Connector	Genuine MC4

### TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	44°C (±2°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)
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: 36 pieces
- Modules per 40' container: 1008 pieces