

THE Honey

FRAMED 120 LAYOUT MODULE



120 LAYOUT
MULTICRYSTALLINE

285-300W
POWER OUTPUT RANGE

17.8%
MAXIMUM EFFICIENCY

0~+5W
BINNING 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
 ISO45001: Occupation Health and Safety Management System



PRODUCTS	POWER RANGE
TSM-PD06H	285-300W



High power

- Up to 300W front power and 17.8% module efficiency with half-cut technology bringing more BOS savings
- Lower resistance of half-cut ensure high power



High reliability

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

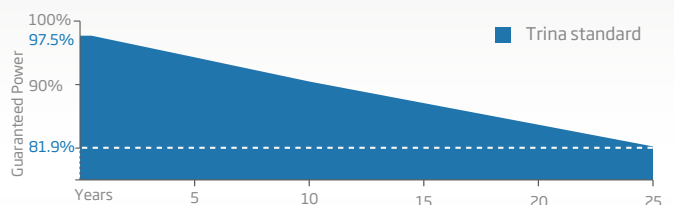


High energy generation

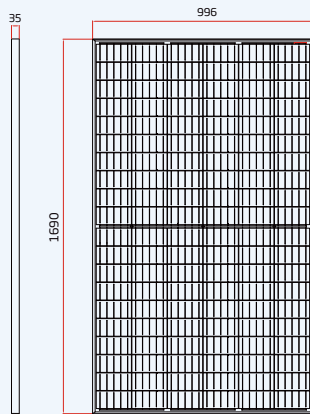
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature

PERFORMANCE WARRANTY

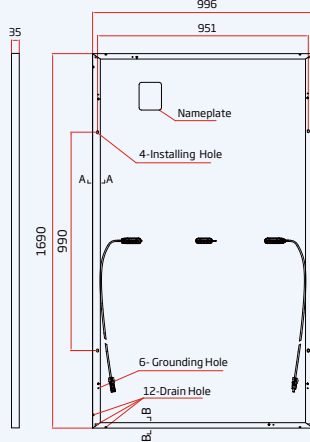
12 Year Product Warranty · 25 Year Power Warranty



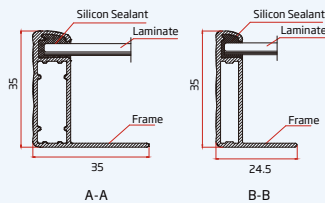
DIMENSIONS OF PV MODULE(mm)



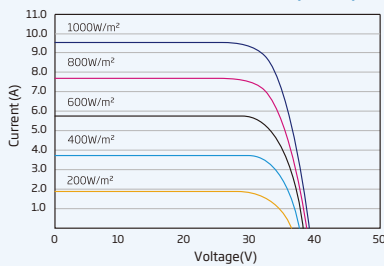
Front View



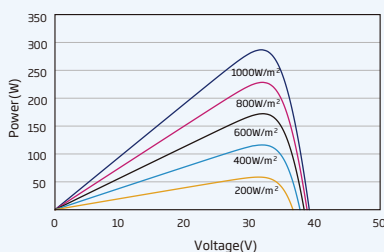
Back View



I-V CURVES OF PV MODULE(290W)



P-V CURVES OF PV MODULE(290W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (W)*	285	290	295	300
Binning Tolerance- P_{MAX} (W)	0 ~ +5			
Maximum Power Voltage- V_{MPP} (V)	31.5	31.8	32.1	32.3
Maximum Power Current- I_{MPP} (A)	9.05	9.12	9.19	9.29
Open Circuit Voltage- V_{OC} (V)	38.8	39.2	39.5	39.8
Short Circuit Current- I_{SC} (A)	9.53	9.60	9.67	9.77
Module Efficiency η_m (%)	16.9	17.2	17.5	17.8

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

ELECTRICAL DATA (NMOT)

Maximum Power- P_{MAX} (Wp)	216	219	223	227
Maximum Power Voltage- V_{MPP} (V)	29.8	30.1	30.4	30.6
Maximum Power Current- I_{MPP} (A)	7.24	7.29	7.35	7.42
Open Circuit Voltage- V_{OC} (V)	36.5	36.9	37.2	37.4
Short Circuit Current- I_{SC} (A)	7.69	7.74	7.80	7.88

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

MECHANICAL DATA

Solar Cells	Multicrystalline
Cell Orientation	120 cells (6 × 20)
Module Dimensions	1690 × 996 × 35 mm (66.54 × 39.21 × 1.38 inches)
Weight	18.0 kg (39.7 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: N 280mm/P 280mm(11.02/11.02inches) Landscape: N 1200 mm / P 1200 mm (47.24/47.24 inches)
Connector	PV-KBT4(female),PV-KST4(male) / TS4

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of P_{MAX}	- 0.38%/°C
Temperature Coefficient of V_{OC}	- 0.31%/°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*	20A / 25A

* 20A Default / 25A upon special request

WARRANTY

- 12 year Product Workmanship Warranty
- 25 year Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

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