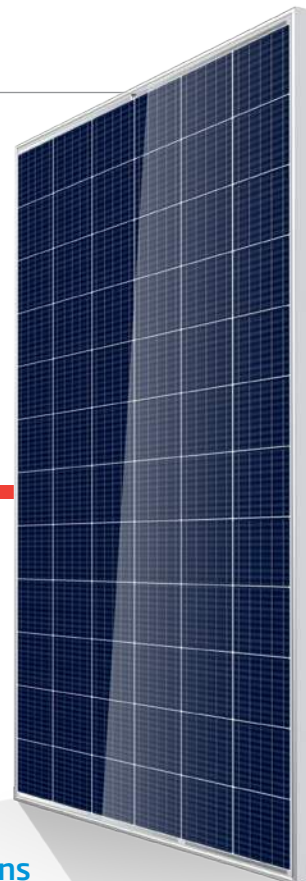


TALLMAX MODULE

TSM-PD14



72 CELL
MULTICRYSTALLINE MODULE

320-340W
POWER OUTPUT RANGE

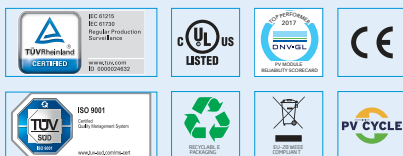
17.5%
MAXIMUM EFFICIENCY

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 Solar is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina Solar as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

Comprehensive Product And System Certificates

IEC61215/IEC61730/UL1703/IEC61701/IEC62716
 ISO 9001: Quality Management System
 ISO 14001: Environmental Management System
 ISO14064: Greenhouse Gas Emissions Verification
 OHSAS 18001: Occupational Health and Safety Management System



Ideal for large scale installations

- High power footprint reduces installation time & BOS costs
- Optimized for tracker installation



One of the industry's most trusted modules

- Field proven performance
- Trina Solar's financial solidity consistently confirmed by banks and investors



Highly reliable due to stringent quality control

- All modules have to pass electroluminescence (EL) inspection
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant
- 1000 V UL/1000 V IEC certified

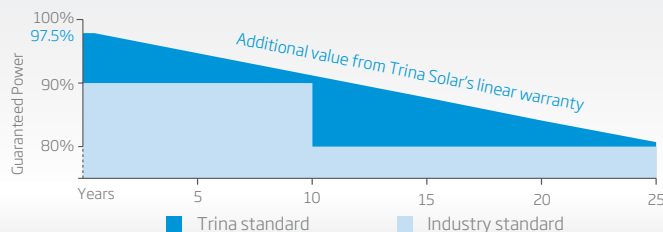


Certified to withstand challenging environmental conditions

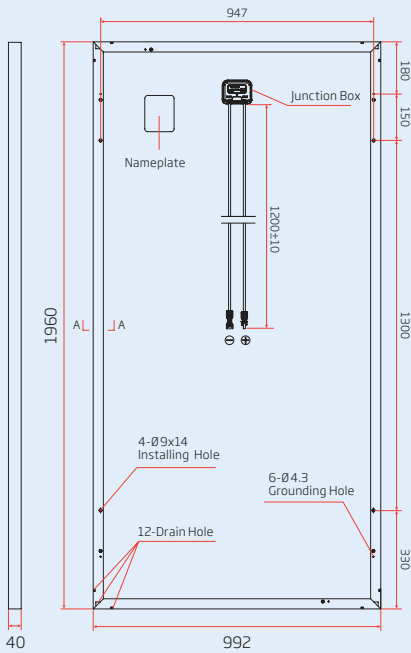
- 130 km/h wind load (2400 Pa)
- 900 kg snow load per module (5400 Pa)
- 35 mm hail stones at 97 km/h
- Ammonia resistance
- Salt mist resistance
- Resistance to sand and dust abrasion

LINEAR PERFORMANCE WARRANTY

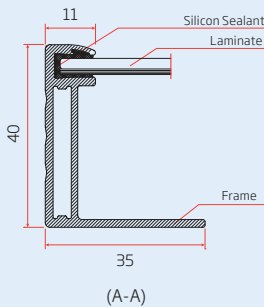
10 Year Product Warranty · 25 Year Linear Power Warranty



DIMENSIONS OF PV MODULE TSM-PD14 (unit: mm)

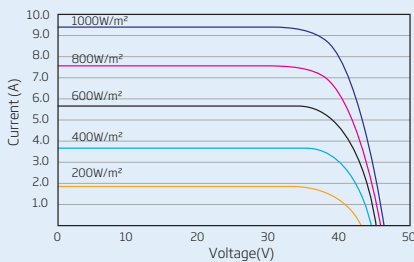


Back View

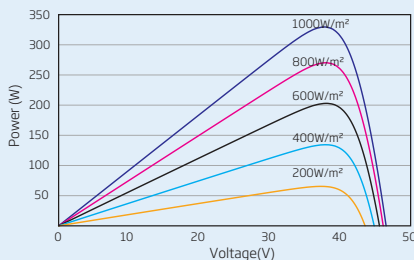


(A-A)

I-V CURVES OF PV MODULE (335W)



P-W CURVES OF PV MODULE (335W)



ELECTRICAL DATA @ STC	TSM-320 PD14	TSM-325 PD14	TSM-330 PD14	TSM-335 PD14	TSM-340 PD14
Peak Power Watts- P_{MAX} (Wp)*	320	325	330	335	340
Power Output Tolerance- P_{MAX} (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage- V_{MPP} (V)	37.1	37.2	37.4	37.6	37.8
Maximum Power Current- I_{MPP} (A)	8.63	8.73	8.83	8.91	8.99
Open Circuit Voltage- V_{OC} (V)	45.5	45.6	45.8	46.0	46.2
Short Circuit Current- I_{SC} (A)	9.15	9.19	9.28	9.35	9.42
Module Efficiency η_m (%)	16.5	16.7	17.0	17.2	17.5

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

ELECTRICAL DATA @ NOCT	TSM-320 PD14	TSM-325 PD14	TSM-330 PD14	TSM-335 PD14	TSM-340 PD14
Maximum Power- P_{MAX} (Wp)	237	241	245	249	252
Maximum Power Voltage- U_{MPP} (V)	34.3	34.4	34.6	34.8	35.0
Maximum Power Current- I_{MPP} (A)	6.92	7.00	7.08	7.14	7.21
Open Circuit Voltage- U_{OC} (V)	42.1	42.2	42.4	42.6	42.8
Short Circuit Current- I_{SC} (A)	7.39	7.42	7.49	7.55	7.60

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

MECHANICAL DATA

Solar Cells	Multicrystalline 156.75 × 156.75 mm
Cell Orientation	72 cells (6 × 12)
Module Dimensions	1960 × 992 × 40 mm
Weight	22.5 kg
Glass	3.2 mm, high transparency, AR coated and heat tempered solar glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² , 1200 mm
Connector	EU Countries: 28 MC4 / UTX / TS4, Non-EU Countries: 28 QC4 / TS4

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C ($\pm 2K$)
Temperature Coefficient of P_{MAX}	- 0.41%/K
Temperature Coefficient of V_{OC}	- 0.32%/K
Temperature Coefficient of I_{SC}	0.05%/K

MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1000VDC (IEC) 1000VDC (UL)
Max Series Fuse Rating*	15 A
Mechanical Load	5400 Pa
Wind Load	2400 Pa

* DO NOT connect fuse in combiner box with two or more strings in parallel connection

WARRANTY

10 year Product Workmanship Warranty

25 year Linear Performance Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box:	27 pieces
Modules per 40' container:	648 pieces