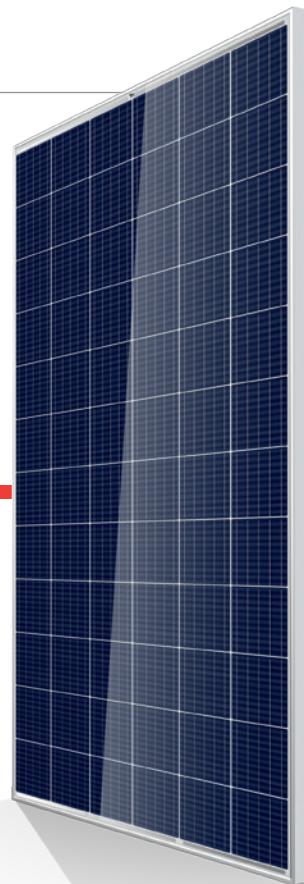


TALLMAX

TSM-PE14A

THE FRAMED 72-CELL MODULE (1500 V)



72 CELL
MULTICRYSTALLINE MODULE

320-340W
POWER OUTPUT RANGE

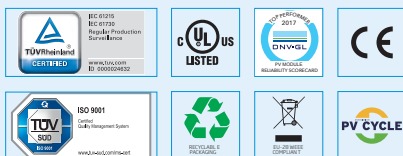
17.5%
MAXIMUM EFFICIENCY

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
- Reduce BOS cost by connecting more modules in a string
- 1500 V UL/1500 V IEC certified



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

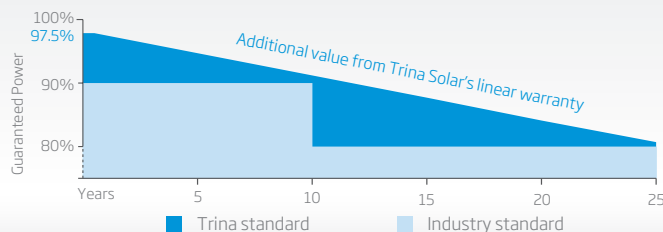


Certified to withstand challenging environmental conditions

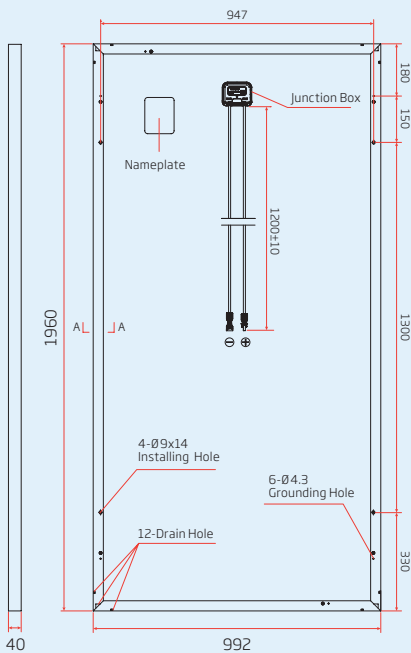
- Module coating resistant to sand, acid, and alkali
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

LINEAR PERFORMANCE WARRANTY

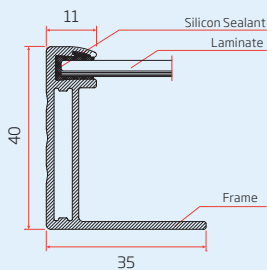
10 Year Product Warranty · 25 Year Linear Power Warranty



DIMENSIONS OF PV MODULE TSM-PE14A (unit: mm)

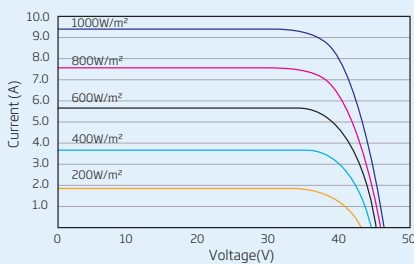


Back View

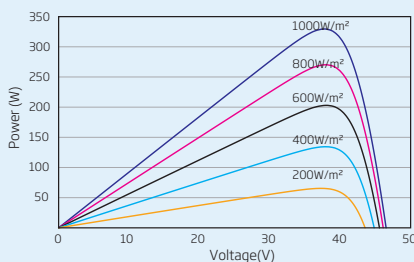


(A-A)

I-V CURVES OF PV MODULE (335W)



P-V CURVES OF PV MODULE (335W)



ELECTRICAL DATA @ STC

	TSM-320 PE14A	TSM-325 PE14A	TSM-330 PE14A	TSM-335 PE14A	TSM-340 PE14A
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 PE14A	TSM-325 PE14A	TSM-330 PE14A	TSM-335 PE14A	TSM-340 PE14A
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 x 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	MC4 EVO2/UTX/TS4

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (± 2 K)
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	1500V DC (IEC) 1500V DC (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

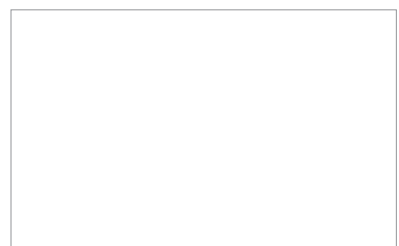
10 year Product Workmanship Warranty

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



TSM_EN_2017_LB