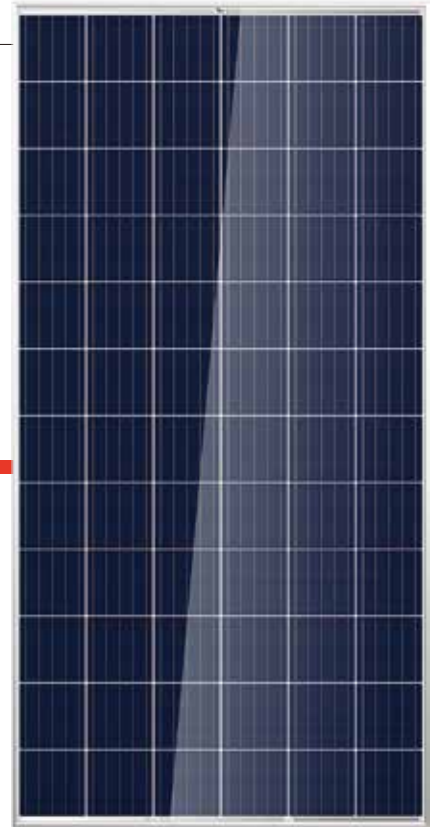


# THE TALLMAX

FRAMED 72-CELL MODULE (1500V)



**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 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

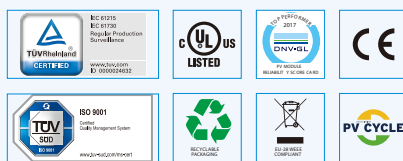
IEC61215/IEC61730/UL1703/IEC61701/IEC62716

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO14064: Greenhouse gases Emissions Verification

OHSAS 18001: Occupation Health and Safety Management System



### Ideal for large scale installations

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



### One of the industry's most trusted modules

- Field proven performance



### 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
- 100% EL double inspection

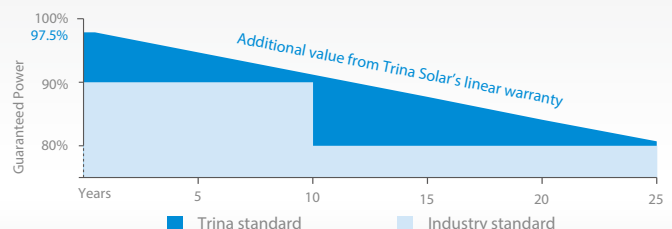


### Certified to withstand the most challenging environmental conditions

- 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



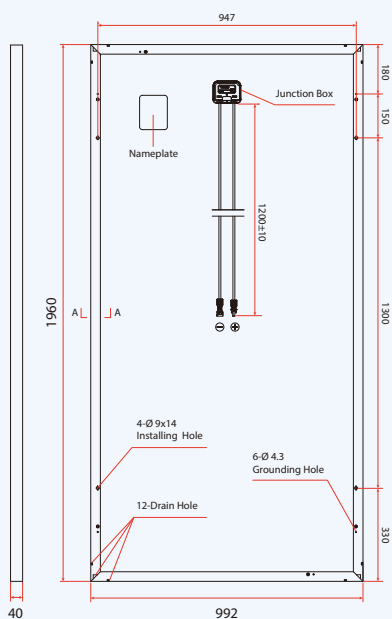
### PRODUCTS

TSM-PE14A

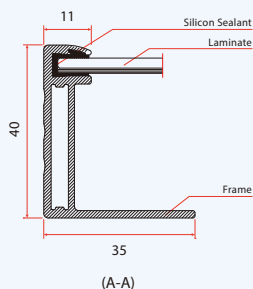
### POWER RANGE

320-340W

### DIMENSIONS OF PV MODULE(mm)

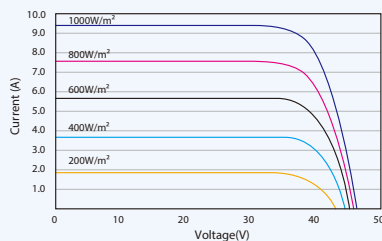


Back View

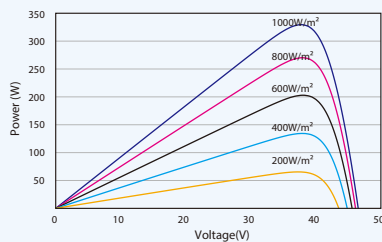


(A-A)

### I-V CURVES OF PV MODULE(335W)



### P-V CURVES OF PV MODULE(335W)



### ELECTRICAL DATA (STC)

Parameter	320	325	330	335	340
Peak Power Watts- $P_{MAX}$ (Wp)*	320	325	330	335	340
Power Output Tolerance- $P_{MAX}$ (W)	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 $\eta_m$ (%)	16.5	16.7	17.0	17.2	17.5

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

### ELECTRICAL DATA (NOCT)

Parameter	237	241	245	249	252
Maximum Power- $P_{MAX}$ (Wp)	237	241	245	249	252
Maximum Power Voltage- $V_{MPP}$ (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- $V_{OC}$ (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 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	72 cells (6 × 12)
Module Dimensions	1960 × 992 × 40 mm (77.2 × 39.1 × 1.57 inches)
Weight	22.5 kg (49.6 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 or IP 68 rated, 3 Bypass diodes
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ), 1200 mm (47.2 inches)
Connector	UTX/MC4 EVO2/TS4 (1500V)

### 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

### MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC) 1500V 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: 27 pieces
Modules per 40' container: 648 pieces