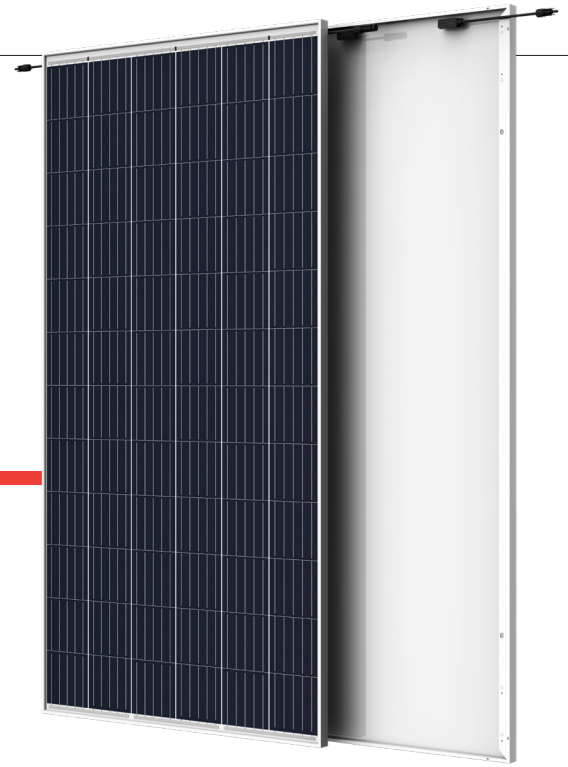


# THE TALLMAX

FRAMED 72-CELL MODULE (1500V)



**72 CELL**  
MULTICRYSTALLINE MODULE

**315-340W**  
POWER OUTPUT RANGE

**17.5%**  
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/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 IEC certified



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

- Field proven performance



### Highly reliable due to stringent quality control

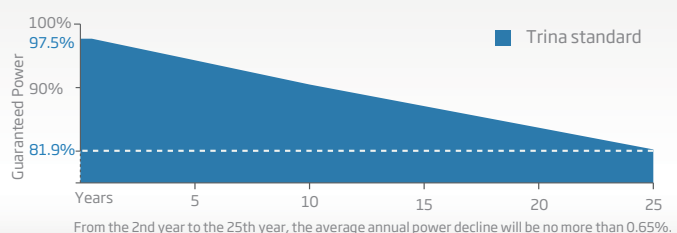
- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- 100% EL double inspection
- fire class rating C



### Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load

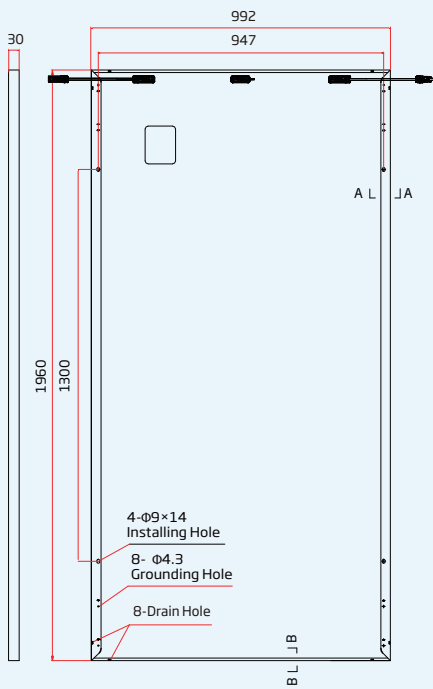
## PERFORMANCE WARRANTY



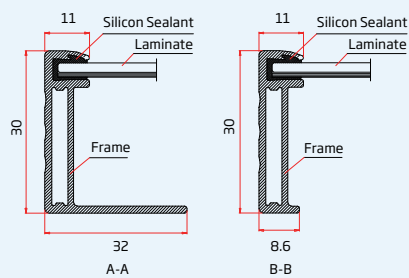
### PRODUCTS POWER RANGE

TSM-PE14A | 315-340W

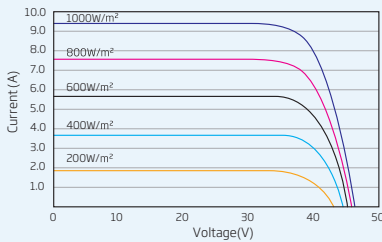
#### DIMENSIONS OF PV MODULE(mm)



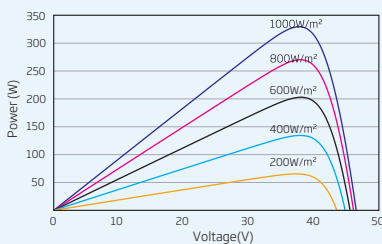
#### Back View



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



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



#### ELECTRICAL DATA (STC)

Peak Power Watts- $P_{MAX}$ (Wp)*	315	320	325	330	335	340
Binning Tolerance- $P_{MAX}$ (W)	0 ~ +5					
Maximum Power Voltage- $V_{MPP}$ (V)	37.1	37.1	37.2	37.4	37.6	37.8
Maximum Power Current- $I_{MPP}$ (A)	8.50	8.63	8.73	8.83	8.91	9.00
Open Circuit Voltage- $V_{OC}$ (V)	45.3	45.5	45.6	45.8	46.0	46.4
Short Circuit Current- $I_{SC}$ (A)	9.08	9.15	9.19	9.28	9.35	9.48
Module Efficiency $\eta_m$ (%)	16.2	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)

Maximum Power- $P_{MAX}$ (Wp)	234	237	241	245	249	252
Maximum Power Voltage- $V_{MPP}$ (V)	34.3	34.3	34.4	34.6	34.8	35.0
Maximum Power Current- $I_{MPP}$ (A)	6.82	6.92	7.00	7.08	7.14	7.21
Open Circuit Voltage- $V_{OC}$ (V)	42.0	42.1	42.2	42.4	42.6	43.0
Short Circuit Current- $I_{SC}$ (A)	7.33	7.39	7.42	7.49	7.55	7.64

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

#### MECHANICAL DATA

Solar Cells	Multicrystalline
Cell Orientation	72 cells (6 × 12)
Module Dimensions	1960 × 992 × 30 mm (77.2 × 39.1 × 1.18 inches)
Weight	19.5 kg (43.0 lb)
Glass	2.8 mm (0.11 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
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	Stabuli MC4 EVO2 / Trina Solar TS4

#### TEMPERATURE RATINGS

NMOT (Nominal Module Operating 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)
Max Series Fuse Rating	15A

#### WARRANTY

12 year Product Workmanship Warranty  
25 year Linear Power Warranty  
2.5% first year degradation  
0.65% Annual Power Attenuation

(Please refer to product warranty for details)

#### PACKAGING CONFIGURATION

Modules per box: 36 pieces  
Modules per 40' container: 864 pieces